VOLUNTARY CLEANUP PLAN
SECOND INTERIM REMEDIATION REPORT

13TH STREET PLAZA
1770 13TH STREET
BOULDER, COLORADO

Prepared for:

City of Boulder

Prepared by:

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A Full Service Environmental Company

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1.0 INTRODUCTION

This Second Interim Remediation Report (Second Interim Report) has been prepared by USA Environment, L.P. (USA) on behalf of the City of Boulder – Public Works (city) to summarize the results of a pilot study and ongoing groundwater monitoring activities performed at the 13th Street Plaza located at 1770 13th Street in Boulder, Colorado (Site) from September 2014 through March 2016.[1] This Second Interim Report also addresses the results of an analysis completed, including an additional bench test, to evaluate remedial alternatives to address residual soil and groundwater impacts at the Site.

The activities summarized herein were completed pursuant to the *Voluntary Cleanup Plan (VCUP) Interim Remediation Report* dated July 30, 2014 (USA 2014) (First Interim Report) and approved by the Colorado Department of Public Health and Environment (CDPHE) on August 20, 2014. Details of historic operations, Site conditions and previous remediation activities were summarized in the First Interim Report, as well as the *VCUP Program Application* dated October 18, 2013 (USA 2013a) (VCUP Application), and are not restated in this Second Interim Report.

2.0 FIELD PILOT STUDY

The field pilot study recommended in the First Interim Report was completed at the Site during September 2014. The pilot study was implemented to evaluate the field-scale effectiveness of in situ chemical oxidant injections in reducing the concentrations of residual sorbed- and dissolved-phase volatile organic compounds (VOC) and semi-volatile organic compounds (SVOC) in soil and groundwater at the Site. The Pilot Study was performed using two in-place injection trenches (Trench-1 and Trench-2 as illustrated on **Figure 2**) installed within the limits of the former Relief Holder during the previous VCUP remediation activities. Hydrogen peroxide (H_2O_2) was selected for the pilot study as a low-cost, potentially effective oxidant. The pilot study was configured to evaluate each of the following:

1) Whether in situ gravity feed of oxidant was feasible and/or whether pressurized injections of oxidant would be necessary;
2) Potential injection flow rates and volumes of oxidant to be injected;
3) The effectiveness of oxidation based on different concentrations of the oxidant;
4) Injection pressures;
5) Treatment radius of influence;
6) Reaction-based stoichiometric relationships between the selected oxidant and remaining manufactured gas plant (MGP) impacted materials in the subsurface environment; and

[1] The Site consists of an approximately 1.5 acre parcel which includes the Dushanbe Teahouse (Teahouse) and the 13th Street Plaza (Plaza) on the western half of the parcel, and a paved surface parking lot on the eastern half of the parcel as illustrated on **Figure 1**.

7) The effectiveness of the injections in reducing the concentrations of dissolved contaminants.

2.1 Pilot Study Activities

The following section summarizes the activities undertaken at the Site to implement the field pilot study.

2.1.1 *Monitoring Well Installation and Completion*

On September 4 and 5, 2014, USA directed drilling and installation of five new groundwater monitoring wells. New monitoring wells MW-11 and MW-12 were installed in close proximity to the former Relief Holder and the two in-place injection trenches to evaluate performance of the pilot study. Groundwater monitoring wells MW-3R and MW-8R were installed to replace monitoring wells that were abandoned as part of the 2014 excavation efforts. Groundwater monitoring well MW-13 was installed in the far northeast corner of the parking lot located south of the Site to evaluate whether the on-Site groundwater plume extended off-Site in this direction. The wells were installed by Site Services Drilling, LLC of Golden, Colorado. **Figure 2** illustrates the locations of monitoring wells MW-3R, MW-8R, MW-11, MW-12, and MW-13.

At each location, 8-inch diameter borings were advanced with a CME-75 drill rig utilizing hollow-stem auger methods to depths ranging from approximately 13.5 to 18.5 feet below ground surface (bgs). Soil samples were collected at five (5) foot intervals with a 2.5-inch diameter, 24-inch long split-spoon sampler. The soil samples recovered were each logged to determine the soil classification, plasticity, color, consistency, and moisture content. Soils in the MW-3R and MW-13 borings consisted primarily of silts, sands and sandy-gravels with cobbles and some boulders. Monitoring well locations MW-8R, MW-11, and MW-12 were installed into the clean fill material placed subsequent to 2014 excavation activities. One (1) soil sample per boring was selected for laboratory analysis based on visual, olfactory and photoionization detector (PID) screening. VOC/SVOC laboratory analytical results for soil samples collected from these boring locations were below the applicable CDPHE Colorado Soil Evaluation Values (CSEV) Groundwater Protection Levels (CDPHE 2011). Soil sample results are summarized in **Tables 1 and 2.** The laboratory data reports are presented in **Appendix A**. Soil boring logs with Unified Soil Classification System (USCS) descriptions are provided in **Appendix B**.

Groundwater was encountered in the borings at depths ranging from approximately 8 to 12.5-feet bgs based upon saturation of soil cuttings and downhole measurements after drilling activities were completed. Monitoring wells were screened based on where saturation was identified to establish the appropriate upper to lower limit interval for the well screens.

Following drilling activities, all five borings were completed as two (2) inch diameter groundwater monitoring wells with approximately 10 feet of 0.010-inch slotted polyvinyl chloride (PVC) pipe screen and five to 10 feet of blank PVC riser pipe. A filter pack consisting of 10/20 grain silica sand was installed within the annulus around the slotted

pipe and bentonite was installed above the sand pack to provide a hydraulic seal. Boring logs and the associated well construction logs are included in **Appendix B**.

The monitoring wells were developed using either alternating bailing and surging using appropriately sized clean disposable bailers and surge blocks or utilizing an electric downhole Whale® pump. Any equipment used at more than one well location was decontaminated to prevent cross-contamination between monitoring well locations. Each well was then purged until turbidity was significantly reduced and clarity increased, and water quality parameters (temperature, pH, and conductivity) stabilized to within 10% of the previous purge values. No sheen or VOC/SVOC odors were observed during well development activities at monitoring well MW-11. Both a visible sheen and apparent VOC/SVOC odors were noted during well development activities at MW-3R, MW-8R, MW-12, and MW-13. Groundwater produced during well development was containerized on-site and disposed off-site at the Raritan Centralized Water Treatment (CWT) facility located in Englewood, Colorado. Well development logs are included in **Appendix B**. The top of casing elevation for these five newly installed Site monitoring wells were surveyed subsequent to installation activities. A copy of the surveyor's report is included in **Appendix C**.

2.1.2 *Pilot Study Injection Activities*

On October 6 and 7, 2014, a dilute, 4 to 7.5 percent (%),H_2O_2 solution was injected into to the two subsurface trenches and adjacent environs within the area of the former Relief Holder. The injections utilized both gravity feed and pressure injection methods. Field forms from the pilot study field activities are provided in **Appendix D**. Details of the injection activities associated with each trench are summarized as follows:

<u>Trench-1</u>

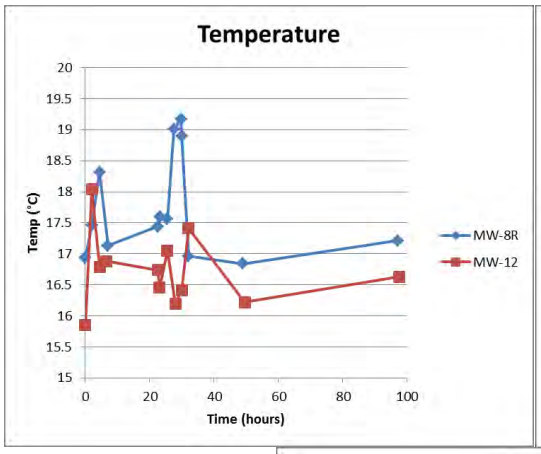
- Approximately 620 gallons of H_2O_2 was injected into Trench-1 on October 6, 2014, including:
  - Approximately 290 gallons of H_2O_2 was delivered to the trench via gravity feed. Injection flow rates diminished over time, although no pressure buildup was observed.
  - Approximately 330 gallons of H_2O_2 was delivered to the trench using a mechanical pumping method. A flow rate of 9 to 10 gallons per minute (gpm) was established with minimal pressure buildup observed (0 to 4 psi). Some minor surfacing of H_2O_2 to the non-paved ground surface was observed near the vertical delivery piping for Trench-1, at which time the injections were discontinued at this location.
- Based upon field parameter readings on October 6 and 7, 2014, the following observations were noted as a result of the H_2O_2 injected at Trench-1. Graphs presented below illustrate the following changes in conditions.
  - Increased temperatures were observed at monitoring wells MW-12 and MW-8R (1 to 2 °C).
  - A slight increase in dissolved oxygen (DO) concentrations was observed at monitoring well MW-12.

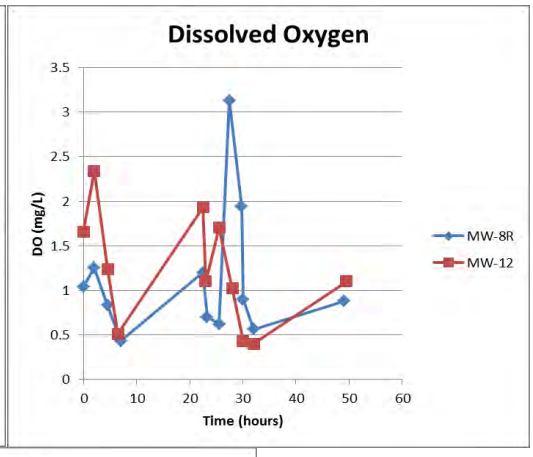
- Increases in oxidation reduction potential (ORP) levels were observed at monitoring wells MW-12 and MW-8R.

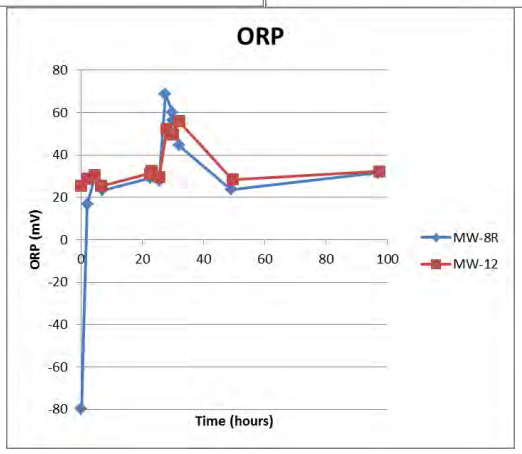
Trench-2

- Approximately 1,510 gallons of H_2O_2 was injected to Trench-2 on October 6 and 7, 2014. All H_2O_2 was delivered to this trench location using a mechanical pumping method. A flow rate of 5 to 11 gpm was established with minimal pressure buildup observed (0 to 3 psi). Some minor surfacing of H_2O_2 to the paved ground surface was observed near the vertical delivery piping for Trench-2 following the completion of injection activities.
- Based upon field parameter readings on October 6 and 7, 2014, the following observations were noted as a result of the H_2O_2 injected at Trench-2.
  - Increased temperatures, DO concentrations, and ORP levels were observed at monitoring well MW-8R.
  - No other monitoring well locations in the vicinity of Trench-2 had observed field parameter changes as a result of the injections.

Graphs illustrating the temperature, DO, and ORP field parameter data collected at monitoring wells MW-8R and MW-12 during and post-injection are provided below.







2.2 Pilot Study Performance Monitoring

Upon completion of the pilot study injection activities, groundwater in MW-3R, MW-5, MW-8R, MW-11, and MW-12 was sampled to evaluate dissolved-phase VOC/SVOC concentration trends in the pilot test area as follows:

- 1st Post-Injection Sampling Event – October 10, 2014
- 2nd Post-Injection Sampling Event – October 21, 2014

In addition, data was collected during subsequent quarterly monitoring events in December 2014 and February 2015.

2.2.1 *Pilot Study Performance Monitoring Results*

Data collected during the 3rd Quarter 2014 (September 15-16, 2014) groundwater sampling event was utilized to establish pre-injection (baseline) dissolved-phase VOC/SVOC concentrations at select Site monitoring well locations. Post-injection groundwater sampling activities were completed between October 2014 and February 2015. Initially, the performance monitoring well location network included MW-3R, MW-5, MW-8R, MW-11, and MW-12. After seeing no signs of influence during oxidant injection and no measurable or observed changes in groundwater quality at monitoring well MW-5 that could be attributed to the injections, MW-5 was removed from the performance monitoring network.

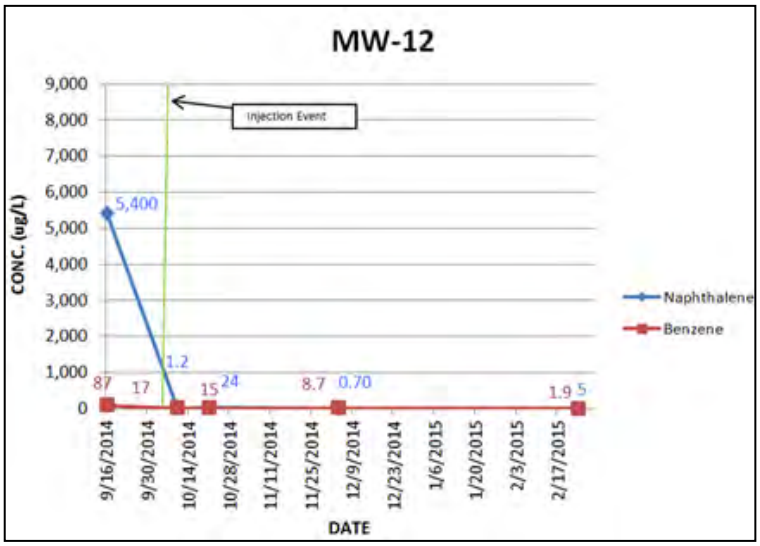
Naphthalene and benzene were the primary focus for trend evaluation; although other VOC/SVOC are discussed where significant variations were observed. The following paragraphs provide brief summaries of VOC/SVOC concentration observations by well location, including graphs of concentrations over time measured for various wells within the network. Groundwater results are summarized in **Tables 4 and 5.** Performance monitoring well locations and analytical data for each well are also presented on **Figure 3**.

- ***Upgradient Performance Monitoring Well Location***
    - **MW-11** – This well is located immediately upgradient of Trench-1. Dissolved-phase VOC/SVOC concentrations at this location showed no appreciable change before and after the pilot study. MW-11 was installed to evaluate groundwater conditions and dissolved-phase VOC/SVOC concentrations immediately upgradient of the trenches. Based on the location of this well, appreciable changes in the dissolved-phase VOC/SVOC concentrations at MW-11 were not anticipated.

- ***Central Performance Monitoring Well Location***

  - **MW-12** – Centrally located between Trench-1 and Trench-2, MW-12 was installed in clean backfill material within the former Relief Holder radius. The initial dissolved-phase VOC/SVOC concentrations, collected during the September 2014 baseline event, likely represent conditions associated with the residual materials left in place along the northern sidewall of the former Relief Holder excavation. During the pilot study monitoring program, significant VOC/SVOC concentration reductions were observed at MW-12 immediately following completion of the injection event. Detailed information on specific VOC/SVOC observations and a trend graph are provided as follows:

    - Naphthalene concentrations decreased by 3 orders-of-magnitude between the baseline sampling event and the 1st post-injection sampling event, from 5,400 µg/L to 1.2 µg/L. Concentrations fluctuated between the 2nd post-injection sampling event and the 4th post-injection sampling event, with the last reported naphthalene concentration at 5 µg/L, which is below the CDPHE Basic Standards for Groundwater (CDPHE 2013) for naphthalene of 140 µg/l.
    - Benzene concentrations also decreased substantially between the baseline sampling event and the 1st post-injection sampling event, from 87 µg/L to 17 µg/L. Concentrations fluctuated between the 2nd post-injection sampling event and the 4th post-injection sampling event. Benzene concentrations were above the CDPHE Basic Standards for Groundwater (CDPHE 2013) for benzene of 5.0 µg/L until the 4th post-injection sampling event, when the benzene concentration decreased to 1.9 µg/L.

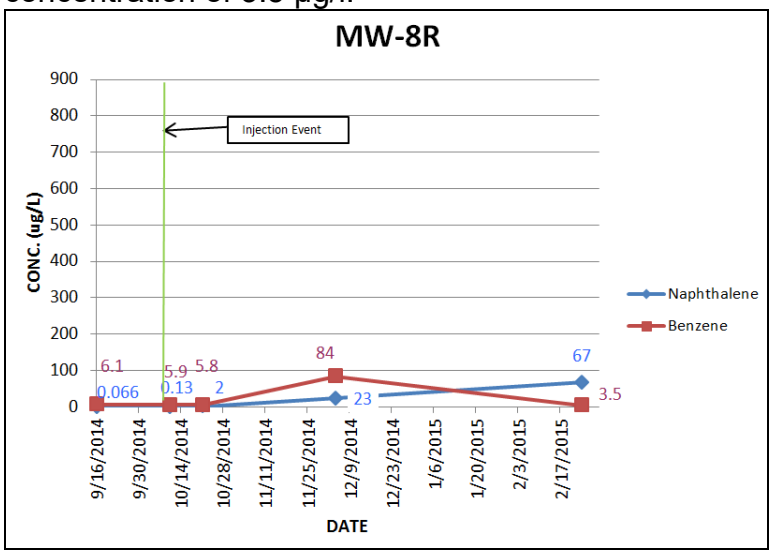


- ***Downgradient Performance Monitoring Well Locations***

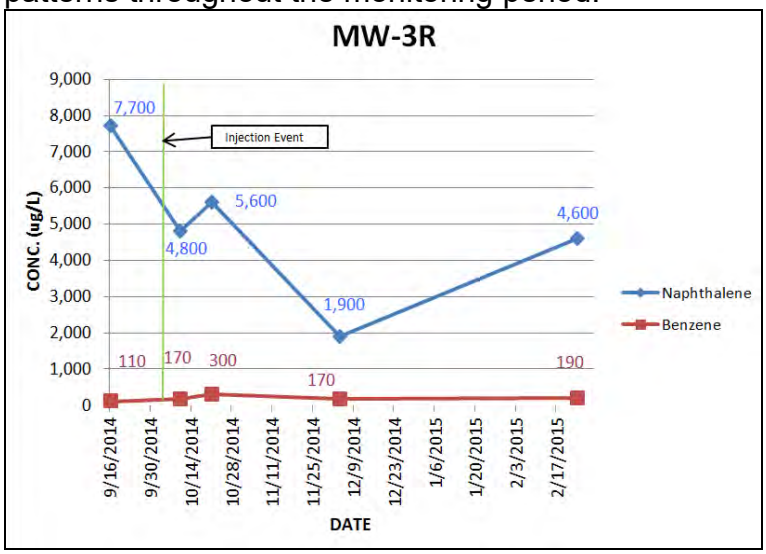
  - **MW-8R** – Located approximately 15-feet downgradient of Trench-2, the initial VOC/SVOC concentrations at MW-8R from the September 2014 baseline sampling event are orders-of-magnitude lower than those observed at the original monitoring well location known as MW-8. MW-8R is constructed in clean backfill material in an area where most of the source mass has been removed. Based upon residual materials left in place near the former Relief Holder, this well was positioned to evaluate dissolved-phase VOC/SVOC concentrations downgradient of the former Relief Holder and to evaluate injection performance.

    During the pilot study monitoring program, minimal changes in dissolved-phase VOC/SVOC concentrations were observed at MW-8R. Due to the low dissolved-phase VOC/SVOC concentrations documented prior to the pilot injection, the slight fluctuations in VOC/SVOC concentrations throughout the monitoring program were anticipated. It was also anticipated that dissolved-phase VOC/SVOC concentrations at this location could increase as a result of the oxidation of upgradient impacts located between the injection trenches. A summary of the data obtained is provided as follows:

    - Naphthalene concentrations increased slightly through the performance monitoring period, but remain below the CDPHE Basic Standards for Groundwater (CDPHE 2013) of 140 µg/L.
    - Benzene concentrations decreased slightly between the baseline (September 2014) sampling event and the 1st post-injection sampling event. Concentrations fluctuated between the 2nd post-injection sampling event and the 4th post-injection sampling event, with benzene concentrations above the CDPHE Basic Standards for Groundwater (CDPHE 2013) of 5.0 µg/L until the 4th post-injection sampling event, when benzene was reported at a concentration of 3.5 µg/l.



- **MW-3R** – Located approximately 55-feet downgradient of Trench-2, this well was installed in an area where residual contaminated soils are inaccessible. During the pilot study monitoring program, moderate to significant changes in dissolved-phase VOC/SVOC concentrations were observed through the monitoring period at MW-3R.
  - Naphthalene concentrations decreased between the baseline sampling event and the 1st post-injection sampling event, from 7,700 µg/L to 4,800 µg/L. Concentrations increased between the 1st and 2nd post-injection sampling events, then decreased to 1,900 µg/L during 3rd post-injection sampling event, then increased to 4,600 µg/L at the 4th post-injection sampling event.
  - Benzene concentrations slightly increased between the baseline sampling event and the 1st post-injection sampling event, from 110 µg/L to 170 µg/L. Concentrations again increased between the 1st and 2nd post-injection sampling events from 170 µg/L to 300 µg/L, before decreasing to 170 µg/L during the 3rd post-injection sampling event and increasing slightly to 190 µg/L during the final event. Concentrations of other VOC/SVOC followed similar fluctuating patterns throughout the monitoring period.



2.2.2 *Pilot Study Conclusion*

The pilot study confirms the following:

1) Gravity feed and pressurized injections are both feasible injection methods, although low pressure/low flow injections is the more efficient method. Based upon the pilot study, gravity feed would not allow for the injection of the desired volume over the 2-day window scoped for the pilot study event.
2) A chemical oxidant could be injected at acceptable flow rates and pressures.

3) The existing in-place injection trenches were effective at creating a treatment radius of influence within and directly downgradient of the former Relief Holder based upon the field parameter data collected at MW-12 and MW-8R.
4) Injection of oxidant using a dilute solution of H_2O_2 (4 to 7.5%) was somewhat effective at reducing MGP-related dissolved-phase VOC/SVOC concentrations based upon the performance monitoring results observed at MW-12 and downgradient at MW-3R.
5) While some rebound, as expected, was observed at MW-3R during the final performance monitoring event, VOC/SVOC concentrations at MW-12 remained lower when compared to baseline results.

The results from the field pilot study confirmed the results of the previous bench study (*see* First Interim Report, at Section 4.1) and indicate that further in situ chemical oxidant injection events should be considered to support remediation of residual soil and groundwater impacts at the Site.

3.0 ADDITIONAL ACTIVITIES

In early 2015, additional monitoring wells were installed and groundwater monitoring performed to supplement groundwater flow direction data and to further evaluate any residual impacts proximate to the inaccessible subsurface areas. (*See* Section 2.0 of First Interim Report for discussion of the areas that were inaccessible during VCUP remediation activities). In addition, XDD Environmental (XDD) performed a bench study at their Stratham, New Hampshire laboratory to evaluate the effectiveness of in situ chemical oxidant injections using sodium persulfate.

3.1.1 *Additional Monitoring Well Installation and Completion*

On February 19 and 20, 2015, USA directed drilling and well installation operations at the Site performed by Site Services Drilling LLC of Golden, Colorado. Three additional groundwater monitoring wells were installed near the two former underground storage tanks (USTs) and adjacent reservoir (MW-15), near the former purifier units (MW-14), and in close proximity southeast of the former Relief Holder (MW-16). **Figure 2** illustrates the locations of monitoring wells MW-14, MW-15, and MW-16.

At each location, 8-inch diameter borings were advanced with either a CME-75 or Geoprobe® 7730DT drill rig utilizing hollow-stem auger methods at depths ranging from approximately 14.5 to 18.2 feet bgs. Soil samples were collected at varying intervals with a 4-inch diameter continuous split barrel sampler for the CME-75 and with a 2-inch diameter PVC liner for the Geoprobe® 7730DT. The materials encountered within each boring were logged to determine soil classification, plasticity, color, hardness and moisture content. The soils encountered in all three borings consisted primarily of silts, sands and sandy-gravels with cobbles and some boulders. Soil boring logs with USCS descriptions are provided in **Appendix B**. One (1) soil sample per boring was selected for laboratory analysis based on visual, olfactory and PID screening. Soil sample were tested with the results summarized in **Tables 1 and 2**.

Groundwater was encountered in each of the borings at depths ranging from approximately 9 to 10.5-feet bgs. Depth to groundwater measurements were made, and the resulting groundwater elevations are summarized on **Table 3**.

Following the drilling activities, borings MW-14 through MW-16 were completed as two (2) inch diameter groundwater monitoring wells with approximately ten (10) feet of 0.010-inch slotted PVC pipe screen and five to 10 feet of blank PVC riser pipe. A graded 10/20 grain silica sand was installed within the annulus around the slotted pipe with bentonite installed above the sand pack to provide a hydraulic seal. Well construction logs are included in **Appendix B**.

Monitoring wells MW-14 through MW-16 were developed following the procedures summarized in Section 2.1.1. No sheen or VOC/SVOC odors were observed during well development activities at monitoring well MW-14. Both a visible sheen and apparent VOC/SVOC odors were noted during well development activities at each of the other monitoring wells installed, including MW-15 and MW-16. Groundwater produced during well development was containerized on-site and disposed off-site at the Raritan CWT facility located in Englewood, Colorado. Well development logs are included in **Appendix B**. The top of casing elevation for these newly installed Site monitoring wells were surveyed by Flagstaff Surveying, Inc. subsequent to installation activities. A copy of the surveyors report is included in **Appendix C**.

3.1.2 *Summary of Additional Quarterly Groundwater Monitoring Results*

Additional full-Site quarterly groundwater monitoring events were completed in June, September and December of 2015, and March and June of 2016. All groundwater samples collected during this period were obtained in accordance with industry standard methods and packed as designated by the analytical laboratory and shipped under chain-of-custody procedures to ESC Lab Sciences located in Mount Juliet, Tennessee. Groundwater samples were analyzed for VOC by United States USEPA method 8260B and for the SVOC selected ion monitoring (SIM) list by USEPA method 8270C. Groundwater data is summarized and compared to the applicable CDPHE Basic Standards for Groundwater (CDPHE 2013) with the results presented in **Tables 4 and 5** and illustrated on **Figures 4 and 5.** The groundwater elevations illustrated on **Figure 4**, for March 2016, are generally representative of the groundwater monitoring period summarized in this report, except when the Boulder and Left Hand Ditch is not flowing, when groundwater flows in a slightly more east-southeasterly direction.

Based on the more recent quarterly sampling results, dissolved-phase concentrations in the groundwater monitoring wells located in areas excavated during 2014 are lower than pre-removal concentrations. Additionally, overall most monitoring wells exhibit decreases in COC concentrations in groundwater. However, levels of COCs in Site groundwater remain above State groundwater standards both on-site and at the Site boundary. Concentrations of COCs in on-site groundwater are highest proximate to inaccesible impacted media remaining at the Site (see results for MW-3R, MW-7, and MW-15). As noted in the First Interim Report, concentrations of COCs in certain soil

samples taken at the Site during VCUP excavation activities proximate to inaccessible materials also exceed applicable State soils standards. First Interim Report, p. 7.

3.1.3 *Alternatives Analysis*

After the completion of the pilot study, the city retained XDD to evaluate a range of remedial alternatives for treating residual contamination in soil and groundwater at the Site to ensure that the city selected the most appropriate remedial alternative to meet its project objective.[2] XDD evaluated remedial technologies that have been successfully implemented at other MGP sites with similar site characteristics and impacted media. The details of the evaluation are set forth in XDD's Remedial Alternatives Analysis Report ("Alternatives Analysis"), which is presented in **Appendix E**.

XDD preliminarily identified for consideration seven possible remedial technologies:

- Soil Removal and Disposal
- In Situ Enhanced Bioremediation
- In Situ Chemical Oxidation (ISCO)
- Permeable Reactive Barrier (PRB)
- Air Sparging/Soil Vapor Extraction (AS/SVE)
- Thermal Treatment
- Groundwater pumping/chemical treatment

XDD screened out from any further evaluation five of the seven technologies -- soil removal and disposal, PRB, AS/SVE, thermal treatment, and groundwater pumping/chemical treatment -- as infeasible or ineffective alternatives. **Appendix E.** XDD evaluated the remaining two remedial technologies (in situ bioremediation and ISCO), as well as the no action alternative, using the criteria set forth in the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) National Contingency Plan (NCP). With respect to ISCO, XDD looked at three possible chemical oxidant alternatives – sodium permanganate, H_2O_2 and sodium persulfate. **Appendix E.** As part of its evaluation, XDD performed a bench-scale evaluation of ISCO on Site soil and groundwater using sodium persulfate. Based on the findings of its alternatives analysis and bench-scale test, XDD recommended ISCO using sodium persulfate as the best treatment option for the Site. **Appendix E.**

[2] As described in the Alternatives Analysis, the Project Objective for the Site is to eliminate existing soil and groundwater impacts associated with historic MGP operations, so as to meet Applicable or Relevant and Appropriate Requirements (ARARs) protect human health and the environment and avoid the significant financial burden and risks associated with long-term groundwater treatment and associated operation and maintenance (O&M).

4.0 RECOMMENDATIONS

Additional remediation at the Site is necessary and appropriate to address residual dissolved-phase VOC/SVOC impacts in groundwater, and meet groundwater standards. USA recommends that the city proceed with ISCO using sodium persulfate at the Site. If this alternative is acceptable to CDPHE, a work plan would be prepared to detail the requirements and support implementation of this alternative. Quarterly groundwater sampling will resume on an appropriate schedule after the selected alternative is implemented.

5.0 REFERENCE LIST

CDPHE 2011. Colorado Department of Public Health and Environment, Hazardous Waste Materials and Waste Management Division. *Table 1. CDPHE Colorado Soil Evaluation Values (CSEV Table)*, July, 2011.

CDPHE 2013. Colorado Department of Public Health and Environment, Water Quality Control Commission. *Regulation 41, The Basic Standards for Ground Water.* January, 2013.

USA 2013a. USA Environment, L.P. *Voluntary Cleanup Program Application*, October 18, 2013.

USA 2014. USA Environment, L.P. *Voluntary Cleanup (VCUP) Plan Interim Remediation Report,* July 30, 2014.

TABLES

TABLE 1
Summary of VOC and TPH Analytical Results in Soil

1770 13th Street
Boulder, Colorado

All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (VOCs by 8260B)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations														
		MW-1[4]	MW-2[4]	MW-3[4]	MW-4[4]	MW-5[4]	MW-5[4]	MW-6[4]	EX-1	EX-2	EX-3	EX-4	EX-5	EX-6	MW-7	MW-8
Sample Depth (feet bgs)		9 to 10	8 to 10	9 to 10	5 to 7	5 to 7	8 to 10	5 to 7	4.75	6.5	8.5	7	6	1.25	10 to 11	9 to 10
Sample Date:		9/30/2010	9/30/2010	9/28/2010	9/29/2010	9/28/2010	9/28/2010	9/29/2010	11/27/2012	11/29/2012	11/29/2012	11/29/2012	12/4/2012	12/5/2012	11/29/2012	11/29/2012
Benzene	0.17	ND(<0.052)	ND(<0.055)	ND(<0.052)	ND(<0.057)	ND(<0.058)	ND(<0.055)	ND(<0.053)	ND (<0.005)	ND(<0.002)	ND(<0.002)	ND(<0.002)	ND(<0.002)	0.18	ND(<0.002)	0.051
Bromobenzene	3	NA	NA		NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Bromochloromethane		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Bromodichloromethane	0.007	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Bromoform	0.048	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Bromomethane	0.16	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
n-Butylbenzene	240	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
sec-Butylbenzene	230	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	1.3	0.36	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
tert-Butylbenzene	230	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Carbon tetrachloride	0.92	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Chlorobenzene	5.3	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Chloroethane	520	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Chloroform	0.085	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Chloromethane	20	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)
Chlorodibromomethane	0.11	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
2-Chlorotoluene		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
4-Chlorotoluene		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,2-Dibromo-3-chloropropane	0.002	NA	NA	NA	NA	NA	NA	NA	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)
1,2-Dibromoethane (EDB)	0.00018	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Dibromomethane		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,2-Dichlorobenzene	57	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,3-Dichlorobenzene	8.5	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,4-Dichlorobenzene	7.8	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Dichlorodifluoromethane	390	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,1-Dichloroethane	1.8	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,2-Dichloroethane (EDC)	0.0036	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,1-Dichloroethene	12	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
cis-1,2-Dichloroethene	1.3	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
trans-1,2-Dichloroethene	5.4	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,2-Dichloropropane	0.0087	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,3-Dichloropropane		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
2,2-Dichloropropane		NA	NA	NA	NA	NA	NA	NA	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
1,1-Dichloropropene		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
cis-1,3-Dichloropropene		ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
trans-1,3-Dichloropropene		ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Ethylbenzene	100	ND(<0.100)	ND(<0.110)	ND(<0.100)	ND(<0.110)	0.507	0.0542[3]	ND(<0.110)	0.277	5.0	3.0	ND(<0.005)	ND(<0.005)	0.18	ND(<0.005)	0.23
Hexachlorobutadiene	0.17	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Tert-amyl methyl ether		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Tert-butyl alcohol		NA	NA	NA	NA	NA	NA	NA	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)
Ethyl tert-butyl ether		NA	NA	NA	NA	NA	NA	NA	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
Isopropylbenzene		NA	NA	NA	NA	NA	NA	NA	0.127	2.0	0.74	ND(<0.005)	ND(<0.005)	0.052	ND(<0.005)	0.14
Di-Isopropyl Ether		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
p-Isopropyltoluene		NA	NA	NA	NA	NA	NA	NA	0.088	2.1	0.41	ND(<0.01)	ND(<0.01)	0.25	ND(<0.01)	0.24
Methylene Chloride	0.06	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)
Methyl tert-butyl ether		ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)
Naphthalene	23	NA	NA	NA	NA	NA	NA	NA	NA	210	130	ND(<0.01)	360	960	ND<0.01	210
n-Propylbenzene	77	NA	NA	NA	NA	NA	NA	NA	0.0571	2.2	0.82	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.06
Styrene	14	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.01)	2.2	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
1,1,2,2-Tetrachloroethane	0.0024	ND(<0.520)	ND(<0.550)	ND(<0.520)	ND(<0.570)	ND(<0.580)	ND(<0.550)	ND(<0.530)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,1,1,2-Tetrachloroethane	0.16	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Tetrachloroethene	1.9	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Toluene	50	ND(<0.100)	ND(<0.110)	ND(<0.100)	ND(<0.110)	ND(<0.120)	ND(<0.110)	ND(<0.110)	ND(<0.005)	ND(<0.005)	0.02	ND(<0.005)	ND(<0.005)	0.24	ND(<0.005)	0.033
1,2,3-Trichlorobenzene		NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,2,4-Trichlorobenzene	13	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,1,2-Trichloroethane	0.038	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,1,1-Trichloroethane	62	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Trichloroethene	0.68	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
Trichlorofluoromethane	1,000	NA	NA	NA	NA	NA	NA	NA	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
1,2,3-Trichloropropane	27	NA	NA	NA	NA	NA	NA	NA	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
1,3,5-Trimethylbenzene	23	NA	NA	NA	NA	NA	NA	NA	0.105	2.0	0.84	ND(<0.005)	ND(<0.005)	0.06	ND(<0.005)	0.17
1,2,4-Trimethylbenzene	71	NA	NA	NA	NA	NA	NA	NA	0.338	10.0	6.2	ND(<0.005)	ND(<0.005)	12.0	ND(<0.005)	0.74
Vinyl chloride	0.11	ND(<0.260)	ND(<0.270)	ND(<0.260)	ND(<0.280)	ND(<0.290)	ND(<0.270)	ND(<0.260)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)
m,p-Xylene	75[2]	NA	NA	NA	NA	NA	NA	NA	0.105	1.8	1.7	ND(<0.01)	ND(<0.01)	18.0	ND(<0.01)	0.26
o-Xylene	75[2]	NA	NA	NA	NA	NA	NA	NA	0.225	5.2	3.2	ND(<0.005)	6.8	13.0	ND(<0.005)	0.42
Xylene (total)	75	ND(<0.100)	ND(<0.110)	ND(<0.100)	ND(<0.110)	2.48	0.245	ND(<0.110)	NA	NA	NA	NA	NA	NA	NA	NA
TPH-GRO		NA	NA	NA	NA	NA	NA	NA	NA	1800	1400	ND(<0.5)	ND(<0.5)	3,500	ND(<0.5)	260

Analyte (TPH-DRO by 8015)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations														
		MW-1	MW-2	MW-3	MW-4	MW-5	MW-5	MW-6	EX-1	EX-2	EX-3	EX-4	EX-5	EX-6	MW-7	MW-8
Sample Depth (feet bgs)		9 to 10	8 to 10	9 to 10	5 to 7	5 to 7	8 to 10	5 to 7	4.75	6.5	8.5	7	6	1.25	10 to 11	9 to 10
Sample Date:		9/30/2010	9/30/2010	9/28/2010	9/29/2010	9/28/2010	9/28/2010	9/29/2010	11/27/2012	11/29/2012	11/29/2012	11/29/2012	12/4/2012	12/5/2012	11/29/2012	11/29/2012
TPH-DRO		NA	NA	NA	NA	NA	NA	NA	NA	NA	4900	NA	460	11,000	NA	NA

TABLE 1
Summary of VOC and TPH Analytical Results in Soil

1770 13th Street
Boulder, Colorado
All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (VOCs by 8260B)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations																
		B-1	B-2	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	RH-EX-1	RH-EX-2	RH-EX-3	MW-9	MW-10
Sample Depth (feet bgs)		9	8.5	14 to 14.5	8.5	10	8.5	8.5	8.0	6.5	7.5	9.5	9.0	4.75	8	8.5-9	9.5	8
Sample Date:		3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/28/2013	3/28/2013	3/28/2013	3/28/2013	4/8/2013	4/8/2013	3/25/2013	3/25/2013	3/25/2013	4/8/2013	6/6/2013
Benzene	0.17	ND (<0.005)	ND (<0.005)	0.0564	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	0.0645	ND (<0.005)	ND (<0.005)	ND(<0.5)	ND(<0.5)	0.118	ND (<0.005)
Bromobenzene	3	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND (<0.005)
Bromochloromethane		ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND (<0.005)
Bromodichloromethane	0.007	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND (<0.005)
Bromoform	0.048	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND(<0.05)	ND (<0.005)	ND (<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND (<0.005)
Bromomethane	0.16	ND (<0.01)	ND (<0.01)	0.285	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	0.105	ND (<0.01)	ND (<0.01)	ND(<1.0)	ND(<1.0)	0.166	ND (<0.01)
n-Butylbenzene	240	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.368	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	2.53	ND(<0.005)
sec-Butylbenzene	230	ND(<0.005)	ND(<0.005)	0.0522	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.108	ND(<0.005)	1.42	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	1.72	ND(<0.005)
tert-Butylbenzene	230	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	1.01	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	2.05	ND(<0.005)
Carbon tetrachloride	0.92	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Chlorobenzene	5.3	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Chloroethane	520	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Chloroform	0.085	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Chloromethane	20	ND(<0.015)	ND(<0.015)	ND(<0.15)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.15)	ND(<0.015)	ND(<0.015)	ND(<1.5)	ND(<1.5)	ND(<0.15)	ND(<0.015)
Chlorodibromomethane	0.11	ND (<0.01)	ND (<0.01)	ND(<0.1)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	ND(<1.0)	ND(<1.0)	ND(<0.1)	ND(<0.01)
2-Chlorotoluene		ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
4-Chlorotoluene		ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,2-Dibromo-3-chloropropane	0.002	ND(<0.015)	ND(<0.015)	ND(<0.15)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.15)	ND(<0.015)	ND(<0.015)	ND(<1.5)	ND(<1.5)	ND(<0.15)	ND(<0.015)
1,2-Dibromoethane (EDB)	0.00018	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Dibromomethane		ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,2-Dichlorobenzene	57	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,3-Dichlorobenzene	8.5	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,4-Dichlorobenzene	7.8	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Dichlorodifluoromethane	390	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,1-Dichloroethane	1.8	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,2-Dichloroethane (EDC)	0.0036	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,1-Dichloroethene	12	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
cis-1,2-Dichloroethene	1.3	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
trans-1,2-Dichloroethene	5.4	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,2-Dichloropropane	0.0087	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,3-Dichloropropane		ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
2,2-Dichloropropane		ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	ND(<1.0)	ND(<1.0)	ND(<0.1)	ND(<0.01)
1,1-Dichloropropene		ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
cis-1,3-Dichloropropene		ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
trans-1,3-Dichloropropene		ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Ethylbenzene	100	0.0117	ND(<0.005)	2.3	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.328	ND(<0.005)	0.194	ND(<0.005)	ND(<0.005)	11.3	0.855	4.44	ND(<0.005)
Hexachlorobutadiene	0.17	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Tert-amyl methyl ether		ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Tert-butyl alcohol		ND(<0.02)	ND(<0.02)	0.766	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.02)	ND(<0.2)	ND(<0.02)	ND(<0.02)	ND(<2.0)	ND(<2.0)	ND(<0.2)	ND(<0.02)
Ethyl tert-butyl ether		ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	ND(<1.0)	ND(<1.0)	ND(<0.1)	ND(<0.01)
Isopropylbenzene		ND(<0.005)	ND(<0.005)	0.957	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.155	ND(<0.005)	0.84	ND(<0.005)	ND(<0.005)	1.77	1.51	2.25	ND(<0.005)
Di-Isopropyl Ether		ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
p-Isopropyltoluene		ND(<0.01)	ND(<0.01)	0.822	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	0.147	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	1.30	4.46	ND(<0.1)	ND(<0.01)
Methylene Chloride	0.06	ND(<0.015)	ND(<0.015)	ND(<0.150)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.015)	ND(<0.15)	ND(<0.015)	ND(<0.015)	ND(<1.5)	ND(<1.5)	ND(<0.15)	ND(<0.015)
Methyl tert-butyl ether		ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Naphthalene	23	1.71	0.256	120	ND(<0.010)	0.0425	0.310	NA	NA	NA	NA	2.05	ND(<0.01)	NA	NA	NA	27.2	ND(<0.01)
n-Propylbenzene	77	ND(<0.005)	ND(<0.005)	0.515	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.197	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	1.12	ND(<0.5)	ND(<0.05)	ND(<0.005)
Styrene	14	ND(<0.010)	ND(<0.010)	ND(<0.100)	ND(<0.010)	ND(<0.010)	ND(<0.010)	ND(<0.010)	ND(<0.010)	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	ND(<1.0)	ND(<1.0)	ND(<0.1)	ND(<0.01)
1,1,2,2-Tetrachloroethane	0.0024	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,1,1,2-Tetrachloroethane	0.16	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Tetrachloroethene	1.9	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Toluene	50	ND(<0.005)	ND(<0.005)	0.0585	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	1.06	1.06	0.0969	ND(<0.005)
1,2,3-Trichlorobenzene		ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,2,4-Trichlorobenzene	13	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,1,2-Trichloroethane	0.038	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,1,1-Trichloroethane	62	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Trichloroethene	0.68	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
Trichlorofluoromethane	1,000	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
1,2,3-Trichloropropane	27	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	ND(<1.0)	ND(<1.0)	ND(<0.1)	ND(<0.01)
1,3,5-Trimethylbenzene	23	ND(<0.005)	ND(<0.005)	1.09	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.149	ND(<0.005)	0.936	ND(<0.005)	ND(<0.005)	1.56	1.46	9.36	ND(<0.005)
1,2,4-Trimethylbenzene	71	0.0124	ND(<0.005)	2.09	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	3.51	ND(<0.005)	3.97	ND(<0.005)	ND(<0.005)	6.88	18.2	20.0	ND(<0.005)
Vinyl chloride	0.11	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	ND(<0.5)	ND(<0.5)	ND(<0.05)	ND(<0.005)
m,p-Xylene	75[2]	ND(<0.010)	ND(<0.010)	0.929	ND(<0.010)	ND(<0.010)	ND(<0.010)	ND(<0.010)	ND(<0.010)	0.625	ND(<0.01)	0.169	ND(<0.01)	ND(<0.01)	6.64	9.86	16.0	ND(<0.01)
o-Xylene	75[2]	0.00774	ND(<0.005)	0.920	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	0.416	ND(<0.005)	ND(<0.05)	ND(<0.005)	ND(<0.005)	5.6	10.2	0.917	ND(<0.005)
Xylene (total)	75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-GRO		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Analyte (TPH-DRO by 8015)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations																
		B-1	B-2	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	RH-EX-1	RH-EX-2	RH-EX-3	MW9	MW-10
Sample Depth (feet bgs)		9	8.5	14 to 14.5	8.5	10	8.5	8.5	8.0	6.5	7.5	9.5	9.0	4.75	8	8.5-9	9.5	8
Sample Date:		3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/28/2013	3/28/2013	3/28/2013	3/28/2013	4/8/2013	4/8/2013	3/25/2013	3/25/2013	3/25/2013	4/8/2013	6/6/2013
TPH-DRO		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of VOC and TPH Analytical Results in Soil

1770 13th Street
Boulder, Colorado

All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (VOCs by 8260B)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations															
		COB_TANK2_013014	COB_SS4_020314	COB_OT1_020314	COB_OT2_020314	COB_CS_020414	COB_SS6_020414	COB_SS7_0205014	COB_SS8_0205014	COB_SS9_0205014	COB_SS10_021814	COB_SS11_022214	COB_SS12_022514	COB_SS13_031114	COB_BR-1_032014	COB_SS14_032114	COB_SS15_032614
Sample Depth (feet bgs)		4.5	7.5	6.0-8.0	6.0-8.0	6.0	9.0	8.0	3.5	5.5	8.0	9.0	9.0	9.0	21.0	10.5	5.5
Sample Date:		1/30/2014	2/3/2014	2/3/2014	2/3/2014	2/4/2014	2/4/2014	2/5/2014	2/5/2014	2/13/2014	2/18/2014	2/22/2014	2/25/2014	3/11/2014	3/20/2014	3/21/2014	3/26/2014
Benzene	0.17	0.22	1.5 J	0.34	0.054	95	ND(<0.25)	ND(<0.050)	ND(<0.0050)	0.57	42	0.14	ND (<0.25)	4.0	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Bromobenzene	3	ND (<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Bromochloromethane		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.007	ND (<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Bromoform	0.048	ND (<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Bromomethane	0.16	ND (<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.025)	ND (<10)	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)
n-Butylbenzene	240	0.030	2.3 J	0.30	0.010 J	2.4	ND(<0.25)	0.86	ND(<0.0050)	ND (<2.0)	2.3	0.82	0.27	0.55	ND (<0.025)	0.65	ND (<0.0050)
sec-Butylbenzene	230	0.0098	2.0 J	0.24 J	0.034	0.79 J	ND(<0.25)	1.3	ND(<0.0050)	ND (<2.0)	0.56	0.65	0.41	0.13	ND (<0.025)	ND (<2.5)	ND (<0.0050)
tert-Butylbenzene	230	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	0.085	ND(<0.0050)	ND (<2.0)	ND (<0.5)	0.076	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Carbon tetrachloride	0.92	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Chlorobenzene	5.3	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Chloroethane	520	ND(<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.025)	ND (<10)	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)
Chloroform	0.085	ND(<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.025)	ND (<10)	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)
Chloromethane	20	ND(<0.013)	ND(<13.0)	ND(<0.63)	ND(<0.063)	ND(<5.0)	ND(<0.63)	ND(<0.13)	ND(<0.013)	ND (<5.0)	ND (<1.3)	ND (<0.63)	ND (<0.63)	ND (<0.63)	ND (<0.063)	ND (<6.3)	ND (<0.013)
Chlorodibromomethane	0.11	ND (<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
2-Chlorotoluene		ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
4-Chlorotoluene		ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
1,2-Dibromo-3-chloropropane	0.002	ND(<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.025)	ND (<10)	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)
1,2-Dibromoethane (EDB)	0.00018	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Dibromomethane		ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
1,2-Dichlorobenzene	57	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
1,3-Dichlorobenzene	8.5	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
1,4-Dichlorobenzene	7.8	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Dichlorodifluoromethane	390	ND(<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.025)	ND (<10)	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)
1,1-Dichloroethane	1.8	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
1,2-Dichloroethane (EDC)	0.0036	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
1,1-Dichloroethene	12	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.50)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
cis-1,2-Dichloroethene	1.3	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.50)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
trans-1,2-Dichloroethene	5.4	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
1,2-Dichloropropane	0.0087	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	0.0056	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
1,3-Dichloropropane		ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
2,2-Dichloropropane		ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
1,1-Dichloropropene		ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
cis-1,3-Dichloropropene		ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
trans-1,3-Dichloropropene		ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Ethylbenzene	100	0.13	22.0	2.2	0.13	230	ND(<0.25)	0.51	ND(<0.0050)	5.4	160	4.6	1.2	22	0.021	13	ND (<0.0050)
Hexachlorobutadiene	0.17	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Tert-amyl methyl ether		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tert-butyl alcohol		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl tert-butyl ether		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene		0.055	5.7	0.49	0.024	ND(<2.0)	ND(<0.25)	1.2	ND(<0.0050)	0.97	14	1.4	0.62	3.1	ND (<0.025)	3.2	ND (<0.0050)
Di-Isopropyl Ether		ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
p-Isopropyltoluene		0.082	3.0 J	0.34	0.037	6.8	ND(<0.25)	1.4	ND(<0.0050)	1.4	6.0	1.2	0.53	1.5	ND (<0.025)	1.8	ND (<0.0050)
Methylene Chloride	0.06	ND(<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.025)	ND (<2.0)	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)
Methyl tert-butyl ether		ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	0.97	ND (<0.0050)
Naphthalene	23	120	380	37	0.76	4,800	0.99 J	2.4	ND(<0.025)	180	2,800	440	22	1,200	37	420	ND (<0.025)
n-Propylbenzene	77	0.033	5.3	0.55	0.015 J	12	ND(<0.25)	2	ND(<0.0050)	ND (<2.0)	5.8	1.1	0.61	1.4	0.0060	1.5	ND (<0.0050)
Styrene	14	0.11	ND(<5.0)	ND(<0.25)	0.015 J	11	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	12	0.065	ND (<0.25)	2.4	0.012	ND (<2.5)	ND (<0.0050)
1,1,2,2-Tetrachloroethane	0.0024	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
1,1,1,2-Tetrachloroethane	0.16	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Tetrachloroethene	1.9	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Toluene	50	0.30	3.0 J	0.34 J	0.066 J	240	ND(<1.3)	ND(<2.5)	ND(<0.025)	1.7	98	0.68	0.21	16	ND (<0.13)	2.0	ND (<0.025)
1,2,3-Trichlorobenzene		ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
1,2,4-Trichlorobenzene	13	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
1,1,2-Trichloroethane	0.038	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
1,1,1-Trichloroethane	62	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Trichloroethene	0.68	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	0.27 J	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
Trichlorofluoromethane	1,000	ND(<0.025)	ND(<25.0)	ND(<1.3)	ND(<0.13)	ND(<10.0)	ND(<1.3)	ND(<0.25)	ND(<0.013)	ND (<10)	ND (<2.5)	ND (<1.3)	ND (<1.3)	ND (<1.3)	ND (<0.13)	ND (<13)	ND (<0.025)
1,2,3-Trichloropropane	27	ND(<0.013.)	ND(<13.0)	ND(<0.63)	ND(<0.063)	ND(<5.0)	ND(<0.63)	ND(<0.13)	ND(<0.013)	ND (<2.0)	ND (<1.3)	ND (<0.63)	ND (<0.63)	ND (<0.63)	ND (<0.063)	ND (<6.3)	ND (<0.013)
1,3,5-Trimethylbenzene	23	0.24	18.0	1.9	0.047	43	ND(<0.25)	4.3	ND(<0.0050)	2.4	24	8.3	3.1	7.2	0.027	6.2	ND (<0.0050)
1,2,4-Trimethylbenzene	71	0.46	42.0	5.2	0.11	110	0.085 J	11	ND(<0.0050)	6.3	68	18	5.7	19	0.073	17	ND (<0.0050)
Vinyl chloride	0.11	ND(<0.005)	ND(<5.0)	ND(<0.25)	ND(<0.025)	ND(<2.0)	ND(<0.25)	ND(<0.050)	ND(<0.0050)	ND (<2.0)	ND (<0.5)	ND (<0.25)	ND (<0.25)	ND (<0.25)	ND (<0.025)	ND (<2.5)	ND (<0.0050)
m,p-Xylene	75[2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	75[2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	75	0.56	77	7.2	0.10	320	ND(<0.75)	2	ND(<0.015)	6.1	140	24	3.6	32	0.048	20	ND (<0.015)
TPH-GRO		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Analyte (TPH-DRO by 8015)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations															
		COB_TANK_013014	COB_SS4_020314	COB_OT1_020314	COB_OT2_020314	COB_CS_020414	COB_SS6_020414	COB_SS7_0205014	COB_SS8_0205014	COB_SS9_0205015	COB_SS10_021814	COB_SS11_022214	COB_SS12_022514	COB_SS13_031114	COB_BR-1_032014	COB_SS14_032114	COB_SS15_032614
Sample Depth (feet bgs)		4.5	7.5	6.0-8.0	6.0-8.0	6.0	9.0	8.0	3.5	5.5	8.0	9.0	9.0	9.0	21.0	10.5	5.5
Sample Date:		1/30/2014	2/3/2014	2/3/2014	2/3/2014	2/4/2014	2/4/2014	2/5/2014	2/5/2014	2/13/2014	2/18/2014	2/22/2014	2/25/2014	3/11/2014	3/20/2014	3/21/2014	3/26/2014
TPH-DRO		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
Summary of VOC and TPH Analytical Results in Soil

1770 13th Street
Boulder, Colorado
All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (VOCs by 8260B)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations											
		COB_SS16_032614	COB_SS17_032614	COB_SS18_033114	COB_S19_040914	COB_MW3R_090414	COB_MW8R_090414	COB_MW11_090514	COB_MW12_090414	COB_MW13_090514	COB_MW14_021915	COB_MW15_021915	COB_MW16_022015
Sample Depth (feet bgs)		11.0	11.0	10.0	9-9.5	10-11.5	10-12	10-12	10-12	10-12	8-9	8-10	7-9
Sample Date:		3/26/2014	3/26/2014	3/31/2014	4/9/2014	9/4/2014	9/4/2014	9/5/2014	9/4/2014	9/5/2014	2/19/2015	2/19/2015	2/20/2015
Benzene	0.17	ND (<0.0050)	ND (<0.0050)	ND (<250)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Bromobenzene	3	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Bromochloromethane		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.007	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Bromoform	0.048	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Bromomethane	0.16	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.50)	ND (<0.025)
n-Butylbenzene	240	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	0.79	ND (<0.0050)
sec-Butylbenzene	230	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	0.83	ND (<0.0050)
tert-Butylbenzene	230	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	0.053 J	ND (<0.0050)
Carbon tetrachloride	0.92	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Chlorobenzene	5.3	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Chloroethane	520	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.50)	ND (<0.025)
Chloroform	0.085	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.50)	ND (<0.025)
Chloromethane	20	ND (<0.013)	ND (<0.013)	ND (<13)	ND (<0.013)	ND (<0.013)	ND (<0.013)	ND (<0.013)	ND (<0.013)	ND (<0.013)	ND (<0.013)	ND (<0.25)	ND (<0.013)
Chlorodibromomethane	0.11	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
2-Chlorotoluene		ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
4-Chlorotoluene		ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,2-Dibromo-3-chloropropane	0.002	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.50)	ND (<0.025)
1,2-Dibromoethane (EDB)	0.00018	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Dibromomethane		ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,2-Dichlorobenzene	57	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,3-Dichlorobenzene	8.5	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,4-Dichlorobenzene	7.8	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Dichlorodifluoromethane	390	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.50)	ND (<0.025)
1,1-Dichloroethane	1.8	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,2-Dichloroethane (EDC)	0.0036	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,1-Dichloroethene	12	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
cis-1,2-Dichloroethene	1.3	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
trans-1,2-Dichloroethene	5.4	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,2-Dichloropropane	0.0087	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,3-Dichloropropane		ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
2,2-Dichloropropane		ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,1-Dichloropropene		ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
cis-1,3-Dichloropropene		ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
trans-1,3-Dichloropropene		ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Ethylbenzene	100	ND (<0.0050)	ND (<0.0050)	57	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	0.13	ND (<0.0050)
Hexachlorobutadiene	0.17	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Tert-amyl methyl ether		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tert-butyl alcohol		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl tert-butyl ether		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene		ND (<0.0050)	ND (<0.0050)	5.3	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	0.46	ND (<0.0050)
Di-Isopropyl Ether		ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
p-Isopropyltoluene		ND (<0.0050)	ND (<0.0050)	5.2	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	1.10	ND (<0.0050)
Methylene Chloride	0.06	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.10)	ND (<0.025)
Methyl tert-butyl ether		ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Naphthalene	23	ND (<0.025)	ND (<0.025)	6,300	0.0061	0.015 J	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	41	0.0058 J
n-Propylbenzene	77	ND (<0.0050)	ND (<0.0050)	1.7	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	0.66	ND (<0.0050)
Styrene	14	ND (<0.0050)	ND (<0.0050)	1.7	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,1,2,2-Tetrachloroethane	0.0024	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,1,1,2-Tetrachloroethane	0.16	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Tetrachloroethene	1.9	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Toluene	50	ND (<0.025)	ND (<0.025)	9.3	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.50)	ND (<0.025)
1,2,3-Trichlorobenzene		ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,2,4-Trichlorobenzene	13	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,1,2-Trichloroethane	0.038	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
1,1,1-Trichloroethane	62	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Trichloroethene	0.68	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
Trichlorofluoromethane	1,000	ND (<0.025)	ND (<0.025)	ND (<25)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.025)	ND (<0.50)	ND (<0.025)
1,2,3-Trichloropropane	27	ND (<0.013)	ND (<0.013)	ND (<13)	ND (<0.013)	ND (<0.013)	ND (<0.013)	ND (<0.013)	ND (<0.013)	ND (<0.013)	ND (<0.013)	ND (<0.25)	ND (<0.013)
1,3,5-Trimethylbenzene	23	ND (<0.0050)	ND (<0.0050)	36	ND (<0.0050)	0.0015 J	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	4.4	0.0017 J
1,2,4-Trimethylbenzene	71	ND (<0.0050)	ND (<0.0050)	68	ND (<0.0050)	0.0038 J	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	8.6	0.0038 J
Vinyl chloride	0.11	ND (<0.0050)	ND (<0.0050)	ND (<5.0)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.10)	ND (<0.0050)
m,p-Xylene	75[2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	75[2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylene (total)	75	ND (<0.015)	ND (<0.015)	140	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	1.3	ND (<0.015)
TPH-GRO		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Analyte (TPH-DRO by 8015)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations											
		COB_SS16_032614	COB_SS17_032614	COB_SS18_033114	COB_S19_040914	COB_MW3R_090414	COB_MW8R_090414	COB_MW11_090515	COB_MW12_090414	COB_MW13_090514	COB_MW14_021915	COB_MW15_021915	COB_MW16_022015
Sample Depth (feet bgs)		11.0	11.0	10.0	9-9.5	10-11.5	10-12	10-12	10-12	10-12	8-9	8-10	7-9
Sample Date:		3/26/2014	3/26/2014	3/31/2014	4/9/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	9/4/2014	2/19/2015	2/19/2015	2/20/2015
TPH-DRO		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

1 - The Colorado Department of Public Health and Environment (CDPHE) utilizes the Colorado Soil Evaluation Values (CSEV Table) for screening of the Groundwater Protection Level. The most recent version (July 2011) of the CSEV Table was utilized to evaluate the Groundwater Protection Levels.
2 - CDHPE CSEV Groundwater Protection Level for xylenes is reported for total xylenes
3 - Detected but below the reporting limit; therefore, result is an estimated concentration.
4 - Soil samples collected by others.
5 - Between January 30, 2014 and April 9, 2014 soil samples were collected as part of the 2014 remediation activities completed at the site and summarized in the 2014 Interim Voluntary Cleanup Remediation Summary Report.
Volatile Organic Compounds (VOCs) analyzed by USEPA Method 8260B.
Cells highlighted in **BLUE** indicate an exceedance of the CSEV for Groundwater Protection Levels.

ND = Not detected at or above the reporting limit.

NA = Not analyzed.
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics.
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics.
J = (EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

TABLE 2
Summary of SVOC Analytical Results in Soil

1700 13st Street
Boulder, Colorado
All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (SVOCs by 8270D)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations														
		MW-1[5]	MW-2[5]	MW-3[5]	MW-4[5]	MW-5[5]	MW-5[5]	MW-6[5]	EX-1[2][4]	EX-2[2]	EX-3[2]	EX-4	EX-5	EX-6	MW-7	MW-8[2]
Sample Depth (feet bgs)		9 to 10	8 to 10	9 to 10	5 to 7	5 to 7	8 to 10	5 to 7	4.75	6.5	8.5	7	6	1.25	10 to 11	9 to 10
Sample Date:		9/30/2010	9/30/2010	9/28/2010	9/29/2010	9/28/2010	9/28/2010	9/29/2010	11/27/2012	11/29/2012	11/29/2012	11/29/2012	12/4/2012	12/5/2012	11/29/2012	11/29/2012
Acenaphthene	1,000	ND<(0.037)	ND<(0.038)	ND<(0.075)	ND<(0.039)	43.7	8.85	ND<(0.038)	0.79[3]	51.0	26.0	0.1[3]	ND (<3.3)	140	ND (<0.33)	130
Acenaphthylene		ND<(0.037)	ND<(0.038)	0.105	ND<(0.039)	1.37	ND<(0.77)	ND<(0.038)	1.7	2.4[3]	1.4[3]	0.021[3]	5.3	440	ND (<0.33)	49
Anthracene	1,000	ND<(0.037)	ND<(0.038)	ND<(0.075)	ND<(0.039)	15.7	3.63	ND<(0.038)	0.97[3]	20.0	9.6	0.18[3]	ND (<3.3)	190	0.0077[3]	68
Benzo (a) anthracene	1,000	ND<(0.037)	0.0422	0.751	ND<(0.039)	10.5	3.1	ND<(0.038)	0.8[3]	9.3	5.4	0.014[3]	12.0	180	0.0087[4]	49
Benzo (b) fluoranthene	1,000	ND<(0.041)	ND<(0.042)	0.66	ND<(0.043)	3.73	1.23	ND<(0.041)	0.23[3]	3.8	2.8[4]	ND (<0.33)	12.0	68.0	ND (<0.33)	77
Benzo (k) fluoranthene	1,000	ND<(0.047)	ND<(0.049)	0.729	ND<(0.050)	4.54	1.67	ND<(0.048)	0.34[3]	6.4	3.8	ND (<0.33)	13.0	110	ND (<0.33)	75
Benzo (g,h,i) perylene		ND<(0.037)	ND<(0.038)	0.95	ND<(0.039)	2.66	1.01	ND<(0.038)	0.11[3]	1.6[3]	0.77[3]	ND (<0.33)	4.2	ND (<33.0)	ND (<0.33)	9.1[3]
Benzo (a) pyrene	1,000	ND<(0.037)	0.0385	0.924	ND<(0.039)	7.56	2.19	ND<(0.038)	0.44[3]	8.7	4.8	ND (<0.33)	15.0	150	ND (<0.33)	53
Chrysene	1,000	ND<(0.047)	ND<(0.049)	0.821	ND<(0.050)	8.57	2.73	ND<(0.048)	0.86[3]	8.8	4.8	0.014[3]	13.0	180	0.009[3]	45
Dibenz (a,h) anthracene	1,000	ND<(0.041)	ND<(0.042)	0.179	ND<(0.043)	ND<(0.86)	ND<(0.84)	ND<(0.041)	ND (<1.3)	0.27[3]	0.57[3]	ND (<0.33)	ND (<0.33)	ND (<33.0)	ND (<0.33)	1.0[3]
Fluoranthene	1,000	ND<(0.071)	0.0463[3]	0.647	ND<(0.075)	21.5	5.95	ND<(0.072)	0.87[3]	25.0	13.0	0.17[3]	9.8	260	0.016[3]	90
Fluorene	1,000	ND<(0.041)	ND<(0.042)	ND<(0.082)	ND<(0.043)	20.7	4.86	ND<(0.041)	2.1	25.0	15.0	0.12[3]	ND (<3.3)	440	ND (<0.33)	110
Indeno (1,2,3-cd) pyrene	1,000	ND<(0.037)	ND<(0.038)	0.796	ND<(0.039)	2.73	1.07	ND<(0.038)	0.055[3]	2.1[3]	1.0[3]	ND (<0.33)	5.9	ND (<33.0)	ND (<0.33)	10[3]
Naphthalene	23	ND<(0.071)	ND<(0.073)	ND<(0.14)	ND<(0.075)	91.8	10.8	0.0365[3]	24.0	140	67.0	0.021[3]	8.8	1,400	ND (<0.33)	230
Phenanthrene		ND<(0.071)	ND<(0.073)	0.281	ND<(0.075)	58.3	14.3	ND<(0.072)	3.2	64.0	39.0	0.57	ND (<3.3)	830	0.026[3]	250
Pyrene	1,000	ND<(0.041)	0.108	2.09	ND<(0.043)	39.9	9.68	0.0381[3]	3.0	ND (<3.3)	ND (<3.3)	ND (<0.33)	25.0	650	ND (<0.33)	NA

TABLE 2
Summary of SVOC Analytical Results in Soil

1700 13st Street
Boulder, Colorado
All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (SVOCs by 8270D)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations																
		B-1	B-2	B-2	B-3	B-4	B-5	B-6	B-7	B-8[2]	B-9	B-10	B-11	RH-EX-1	RH-EX-2	RH-EX-3	MW-9	MW-10[2]
Sample Depth (feet bgs)		9	8.5	14 to 14.5	8.5	10	8.5	8.5	8.0	6.5	7.5	9.5	9.0	4.75	8	8.5-9	9.5	8
Sample Date:		3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/21/2013	3/28/2013	3/28/2013	3/28/2013	3/28/2013	4/8/2013	4/8/2013	3/25/2013	3/25/2013	3/25/2013	4/8/2013	6/6/2013
Acenaphthene	1,000	1.47	0.319	136	0.0294	0.116	0.181	0.065	0.0328	12.6	0.0382	3.49	0.0096	ND(<0.15)	1,510	4.08	4.03	ND(<0.99)
Acenaphthylene		0.266	0.108	1.37	0.0145	0.0531	0.101	0.0345	0.0423	0.388	0.0112	0.315	0.0702	0.548	3.83	2.74	1.12	ND(<0.99)
Anthracene	1,000	0.626	0.48	31.7	0.0433	0.14	0.398	0.118	0.0603	4.06	0.179	2.14	0.0231	ND(<0.15)	2,100	2.16	2.29	ND(<0.99)
Benzo (a) anthracene	1,000	0.596	0.338	26.5	0.019	0.149	0.206	0.0918	0.0617	2.76	0.0442	0.803	0.0564	1.05	5.08	1.82	2.36	ND(<0.99)
Benzo (b) fluoranthene	1,000	0.117	0.0788	0.631	ND(<0.005)	0.0631	0.0873	0.0259	0.0271	0.952	0.0202	0.317	0.0297	0.923	1.72	0.705	2.09	ND(<0.99)
Benzo (k) fluoranthene	1,000	0.123	0.0494	0.469	ND(<0.005)	0.0377	0.0672	0.0329	0.0261	1.03	0.0206	0.427	0.0207	0.657	1.3	0.461	2.67	ND(<0.99)
Benzo (g,h,i) perylene		0.0604	0.036	0.191	ND(<0.005)	0.0249	0.0352	0.0155	0.0129	0.223	0.00885	0.128	0.0402	0.505	0.635	0.201	1.23	ND(<0.99)
Benzo (a) pyrene	1,000	0.267	0.125	0.905	0.00609	0.0877	0.132	0.0741	0.0595	3.41	0.0537	0.559	0.0133	1.23	2.57	0.873	2.31	ND(<0.99)
Chrysene	1,000	0.37	0.0182	1.46	0.0113	0.0599	0.177	0.0812	0.0636	2.18	0.041	0.89	0.0923	0.896	3.26	1.28	2.9	ND(<0.99)
Dibenz (a,h) anthracene	1,000	0.0364	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.01)	0.0139	ND(<0.01)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.1)	ND(<0.01)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<1.0)	ND(<0.99)
Fluoranthene	1,000	0.667	0.846	31.0	0.0633	0.18	0.242	0.131	0.12	4.99	0.116	1.18	0.0449	1.2	721	2.9	3.93	ND(<0.99)
Fluorene	1,000	1.06	0.383	56.5	0.0322	0.107	0.331	0.094	0.0775	6.43	0.0686	2.86	0.0097	ND(<0.150)	1,100	3.62	3.49	ND(<0.99)
Indeno (1,2,3-cd) pyrene	1,000	0.0601	0.0342	0.224	ND(<0.01)	0.0237	0.0348	0.0164	0.0133	0.284	0.0108	0.148	0.0295	0.417	0.602	ND(<0.3)	1.43	ND(<0.99)
Naphthalene	23	1.16	0.143	257	ND(<0.005)	0.00978	0.135	0.0251	0.0148	36.5	0.0321	1.48	0.0188	ND(<0.150)	1,980	2,250	12.7	ND(<0.99)
Phenanthrene		2.54	1.32	168	0.16	0.521	79.2	0.305	0.187	15.4	0.0634	6.48	0.0432	ND(<0.150)	3,210	1,040	9.71	ND(<0.99)
Pyrene	1,000	1.18	1.66	49.7	0.101	0.351	0.478	0.202	0.19	8.29	0.215	3.03	0.368	3.63	1,230	4.96	5.62	1.1

TABLE 2
Summary of SVOC Analytical Results in Soil

1700 13st Street
Boulder, Colorado
All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (SVOCs by 8270D)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations											
		COB_TANK2_013014	COB_SS4_020314	COB_OT1_020314	COB_OT2_020314	COB_CS_020414	COB_SS6_020414	COB_SS7_0205014	COB_SS8_0205014	COB_SS9_0205014	COB_SS10_021814	COB_SS11_022214	COB_SS12_022514
Sample Depth (feet bgs)		4.5	7.5	6.0-8.0	6.0-8.0	6.0	9.0	8.0	3.5	5.5	8.0	9.0	9.0
Sample Date:		1/30/2014	2/3/2014	2/3/2014	2/3/2014	2/4/2014	2/4/2014	2/5/2014	2/5/2014	2/13/2014	2/18/2014	2/22/2014	2/25/2014
Acenaphthene	1,000	320	58	2.6	1.4	360	0.30	0.80	0.0071 J	42	370	100	26
Acenaphthylene		1,000	25	1.8	1.2	1,000	0.27	0.068	0.027 J	1.7	190	4.9	4.3
Anthracene	1,000	1,100	52	3.1	2.4	1,300	2.2	0.85	0.19	13	240	140	44
Benzo (a) anthracene	1,000	600	34	2.9	4.7	940	2	0.62	0.66	8.9	82	71	35
Benzo (b) fluoranthene	1,000	300	16	2.5	4.3	500	1	0.25	0.84	4.4	34	42	25
Benzo (k) fluoranthene	1,000	84	4.7	1	1.2	58	0.39	0.086	0.29	1.3	11	16	7.4
Benzo (g,h,i) perylene		170	7	2.2	2.8	210	0.68	0.14	0.9	2.1	18	22	15
Benzo (a) pyrene	1,000	440	20	2.4	3.5	590	1.4	0.38	0.86	5.6	45	59	32
Chrysene	1,000	600	28	2.6	4.9	790	1.8	0.46	0.76	7.8	75	67	33
Dibenz (a,h) anthracene	1,000	47	2.2	0.55	0.88	69	0.19	0.036	0.15	0.9	7.1	7.5	4.0
Fluoranthene	1,000	1,000	59	4.9	8.7	1,900	3.1	1.1	1	12	140	150	55
Fluorene	1,000	1,000	66	3.7	1.8	2,000	0.64	1.1	0.035	20	300	140	34
Indeno (1,2,3-cd) pyrene	1,000	120	5.4	1.6	2.2	160	0.49	0.12	0.64	1.8	16	18	12
Naphthalene	23	720	370	26	3.7	7,700	0.45	1.3	0.26	76	2,500	430	35
Phenanthrene		3,700	190	9.4	9.1	5,400	3	2.6	0.33	42	570	410	96
Pyrene	1,000	1,600	86	6	9	2,400	4.6	2.2	1.5	16	160	14	90

TABLE 2
Summary of SVOC Analytical Results in Soil
1700 13st Street
Boulder, Colorado
All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (SVOCs by 8270D)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations												
		COB_SS13_031114	COB_BR-1_032014	COB_SS14_032114	COB_SS15_032614	COB_SS16_032614	COB_SS17_032614	COB_SS18_033114	COB_SS19_040914	COB_MW3R_090414	COB_MW8R_090414	COB_MW11_090514	COB_MW12_090414	COB_MW13_090514
Sample Depth (feet bgs)		9.0	21.0	10.5	5.5	11.0	11.0	10.0	9-9.5	10-11.5	10-12	10-12	10-12	10-12
Sample Date:		3/11/2014	3/20/2014	3/21/2014	3/26/2014	3/26/2014	3/26/2014	3/31/2014	4/9/2014	9/4/2014	9/4/2014	9/5/2014	9/4/2014	9/5/2014
Acenaphthene	1,000	4.2	0.14	180	ND(<0.006)	0.32	0.0046	370	0.10	0.084	0.0011 J	0.18	0.028	0.037
Acenaphthylene		29	0.71	14	ND(<0.006)	0.019	0.0022	250	0.0041	0.024	ND(<0.0060)	0.2	0.0070	0.0029 J
Anthracene	1,000	6.8	0.56	42	0.0045	0.17	0.038	190	0.052	0.026	ND(<0.0060)	1.2	0.010	0.036
Benzo (a) anthracene	1,000	3.8	0.15	23	0.014	0.22	0.041	120	0.014	0.0062	0.0020 J	0.88	0.0047 J	0.060
Benzo (b) fluoranthene	1,000	2.1	0.082	13	0.013	0.16	0.031	71	0.0052	0.0019 J	0.0015 J	0.47	0.0044 J	0.064
Benzo (k) fluoranthene	1,000	0.89	0.022	3.0	0.0032	0.035	0.0098	20	0.0014	0.00064 J	ND(<0.0060)	0.089	0.0011 J	0.018
Benzo (g,h,i) perylene		0.91	0.053	5.2	0.0053	0.076	0.02	40	0.0026	0.0012 J	0.0018 J	0.25	0.0037 J	0.044
Benzo (a) pyrene	1,000	2.8	0.1	16	0.0066	0.2	0.048	120	0.0083	0.0027 J	0.0012 J	0.64	0.0040 J	0.058
Chrysene	1,000	3.8	0.12	20	0.016	0.19	0.033	75	0.010	0.0048 J	0.0016 J	0.72	0.0074	0.063
Dibenz (a,h) anthracene	1,000	0.42	0.0084	2.9	0.0028	0.022	0.0046	9.6	0.00063	ND(<0.0060)	ND(<0.0060)	0.071	0.0011 J	0.011
Fluoranthene	1,000	6.9	0.57	37	0.032	0.34	0.058	230	0.044	0.019	0.0026 J	1.4	0.011	0.13
Fluorene	1,000	12	0.64	87	0.001	0.15	0.0063	240	0.042	0.027	0.00065 J	0.33	0.022	0.019
Indeno (1,2,3-cd) pyrene	1,000	0.82	0.037	4.7	0.0062	0.059	0.015	30	0.0020	0.00080 J	0.00097 J	0.2	0.0018 J	0.035
Naphthalene	23	160	11	630	0.0067	0.024	0.0034	3,100	0.0059	0.32	ND(<0.020)	0.0059 J	0.0089 J	0.078
Phenanthrene		26	3.1	160	0.019	0.39	0.038	750	0.20	0.067	0.0020 J	3.9	0.046	0.13
Pyrene	1,000	7.9	0.78	38	0.034	0.72	0.1	310	0.088	0.025	0.0025 J	2.1	0.015	0.12

TABLE 2
Summary of SVOC Analytical Results in Soil

1700 13st Street
Boulder, Colorado
All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (SVOCs by 8270D)	CDPHE CSEV-Groundwater Protection Level - July 2011[1]	Soil Sample Locations		
		COB_MW14_021915	COB_MW15_021915	COB_MW16_022015
Sample Depth (feet bgs)		8-9	8-10	7-9
Sample Date:		2/19/2015	2/19/2015	2/20/2015
Acenaphthene	1,000	ND(<0.060)	6.5	0.078
Acenaphthylene		ND(<0.060)	0.32	0.17
Anthracene	1,000	0.088	4.2	0.45
Benzo (a) anthracene	1,000	0.016 J	3.8	0.72
Benzo (b) fluoranthene	1,000	0.014 J	3.1	0.95
Benzo (k) fluoranthene	1,000	ND(<0.060)	1	0.27
Benzo (g,h,i) perylene		0.10	1.8	0.98
Benzo (a) pyrene	1,000	0.019 J	4	1.2
Chrysene	1,000	0.0085 J	3.2	0.65
Dibenz (a,h) anthracene	1,000	ND(<0.060)	0.51	0.16
Fluoranthene	1,000	0.0087 J	6.2	0.95
Fluorene	1,000	0.01 J	5.4	0.16
Indeno (1,2,3-cd) pyrene	1,000	0.014 J	1.4	0.56
Naphthalene	23	0.078 J	13	0.21
Phenanthrene		0.0060 J	19	0.49
Pyrene	1,000	0.022	10	1.6

Notes:
1 - The Colorado Department of Public Health and Environment (CDPHE) utilizes the Colorado Soil Evaluation Values (CSEV Table) for screening of the Groundwater Protection Level. The most recent version (July 2011) of the CSEV Table was utilized to evaluate the Groundwater Protection Levels.
2 - The reporting limit for analytes have been raised to account for matrix interference.
3 - Detected but below the reporting limit; therefore, result is an estimated concentration.
4 - The full 8270D list was reported for sample. Of the 57 other constituents reported, only six constituents were detected. Of the six detections, nitrobenzene at 0.18 mg/kg was the only analyte to exceed CDPHE CSEV Groundwater Protection
5 - Soil sample collected by others.
6 - Between January 30, 2014 and April 9, 2014 soil samples were collected as part of the 2014 remediation activities completed at the site and summarized in the *2014 Interim Voluntary Cleanup Remediation Summary Report*.
Semi-volatile Organic Compounds (SVOCs) analyzed by USEPA Method 8270D SIM, except at EX-1 where SVOCs analyzed by USEPA Method 8270D Full Scan and soil samples collected in 2010 where SVOCs analyzed by USEPA Method
Cells highlighted in **BLUE** indicate an exceedance of the CSEV for Groundwater Protection Levels.
ND - Not detected at or above the reporting limit.
NA - Not analyzed.

Table 3
Summary of Groundwater Monitoring Well Measurements

October 2010 - March 2016
1770 13th Street
Boulder, Colorado

Monitoring Well Location	Date	Depth to Groundwater BTOC [1] (feet)	Depth to Product BTOC [1] (feet)	Product Thickness (feet)	Total Depth (feet)	TOC Elevation[2] (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event [3] (feet)	Comments:
MW-1	10/4/2010	10.74	ND	None		5,341.51	5,330.77	NM	
MW-1	9/27/2011	10.79	ND	None			5,330.72	-0.05	
MW-1	1/16/2012	11.32	ND	None			5,330.19	-0.53	
MW-1	5/7/2012	9.71	ND	None			5,331.80	1.61	
MW-1	11/30/2012	11.07	ND	None	15.73	5,341.52	5,330.45	-1.36	
MW-1	3/20/2013	10.65	ND	None	15.48		5,330.87	0.42	
MW-1	6/13/2013	9.13	ND	None	15.39		5,332.39	1.52	
MW-1	9/9/2013	10.64	ND	None	15.40		5,330.88	-1.51	
MW-1	10/8/2013	10.69	ND	None	15.38		5,330.83	-0.05	
MW-1	12/11/2013	10.99	ND	None	15.42		5,330.53	-0.30	Approx. 0.25' of sediment in well bottom observed.
MW-1	9/15/2014	9.83	ND	None	15.41		5,331.69	1.16	
MW-1	12/3/2014	10.39	ND	None	15.44		5,331.13	-0.56	
MW-1	2/24/2015	10.51	ND	None	15.53		5,331.01	-0.12	
MW-1	6/22/2015	8.89	ND	None	15.52		5,332.63	1.62	
MW-1	9/1/2015	9.88	ND	None			5,331.64	-0.99	
MW-1	12/9/2015	10.81	ND	None	NM		5,330.71	-0.93	
MW-1	3/1/2016	11.43	ND	None	15.38		5,330.09	-0.62	
MW-2	10/4/2010	9.91	ND	None		5,339.48	5,329.57	NM	
MW-2	9/27/2011	10.02	ND	None			5,329.46	-0.11	
MW-2	1/16/2012	10.51	ND	None			5,328.97	-0.49	
MW-2	5/7/2012	8.95	ND	None			5,330.53	1.56	
MW-2	11/30/2012	10.18	ND	None	13.40	5,339.52	5,329.34	-1.23	
MW-2	3/20/2013	9.73	ND	None	13.51		5,329.79	0.45	
MW-2	6/13/2013	8.78	ND	None	13.48		5,330.74	0.95	
MW-2	9/9/2013	9.90	ND	None	13.49		5,329.62	-1.12	
MW-2	10/8/2013	9.94	ND	None	13.49		5,329.58	-0.04	
MW-2	12/11/2013	10.60	ND	None	13.50		5,328.92	-0.66	
MW-2	9/15/2014	9.36	ND	None	13.50		5,330.16	1.24	
MW-2	12/3/2014	9.83	ND	None	13.50		5,329.69	-0.47	
MW-2	2/24/2015	9.88	ND	None	13.51		5,329.64	-0.05	
MW-2	6/22/2015	8.95	ND	None	13.47		5,330.57	0.93	
MW-2	9/1/2015	9.55	ND	None			5,329.97	-0.60	
MW-2	12/9/2015	10.26	ND	None	NM		5,329.26	-0.71	
MW-2	3/1/2016	10.78	ND	None	13.46		5,328.74	-0.52	
MW-3	10/4/2010	8.53	ND	None		5,338.04	5,329.51	NM	
MW-3	9/27/2011	8.62	ND	None			5,329.42	-0.09	
MW-3	1/16/2012	9.12	ND	None			5,328.92	-0.50	
MW-3	5/7/2012	7.52	ND	None			5,330.52	1.60	
MW-3	11/30/2012	8.79	ND	None	14.31	5,338.09	5,329.30	-1.27	Sheen
MW-3	3/20/2013	8.27	ND	None	14.27		5,329.82	0.52	
MW-3	6/13/2013	7.39	ND	None	14.24		5,330.70	0.88	
MW-3	9/9/2013	8.52	ND	None	14.19		5,329.57	-1.13	Sheen
MW-3	10/8/2013	8.64	ND	None	14.23		5,329.45	-0.12	
MW-3	12/11/2013	9.34	ND	None	14.29		5,328.75	-0.70	
MW-3R	9/15/2014	8.19	ND	None	17.06	5,338.28	5,330.09	NM	Sheen
MW-3R	10/10/2014	8.47	ND	None	17.06		5,329.81	-0.28	Sheen
MW-3R	10/21/2014	8.64	ND	None			5,329.64	-0.17	Sheen
MW-3R	12/3/2014	8.66	ND	None			5,329.62	-0.02	Sheen
MW-3R	2/24/2015	8.7	ND	None	14.94		5,329.58	-0.04	Strong HC odor, discontinuous sheen and black particulates in purge water; staining of bailer
MW-3R	6/22/2015	7.79	ND	None	14.75		5,330.49	0.91	Strong HC odor, sheen, black organics in purge water
MW-3R	9/1/2015	8.37	ND	None			5,329.91	-0.58	Strong HC odor, sheen on purge water; staining of bailer noted
MW-3R	12/9/2015	9.11	ND	None	NM		5,329.17	-0.74	Strong HC odor, sheen
MW-3R	3/1/2016	9.71	ND	None	14.32		5,328.57	-0.60	Strong HC odor, sheen
MW-4	10/4/2010	5.96	ND	None		5,336.63	5,330.67	NM	
MW-4	9/27/2011	6.12	ND	None			5,330.51	-0.16	
MW-4	1/16/2012	6.82	ND	None			5,329.81	-0.70	
MW-4	5/7/2012	4.51	ND	None			5,332.12	2.31	
MW-4	11/30/2012	6.36	ND	None	14.06	5,336.64	5,330.28	-1.85	
MW-4	3/20/2013	5.66	ND	None	14.07		5,330.98	0.70	
MW-4	6/13/2013	4.36	ND	None	14.02		5,332.28	1.30	
MW-4	9/9/2013	5.92	ND	None	14.00		5,330.72	-1.56	
MW-4	10/8/2013	6.62	ND	None	14.01		5,330.02	-0.70	
MW-4	12/11/2013	6.08	ND	None	13.99		5,330.56	0.54	
MW-4	9/15/2014	5.19	ND	None	14.02		5,331.45	0.89	
MW-4	12/3/2014	6.70	ND	None	13.91		5,329.94	-1.51	
MW-4	2/24/2015	6.04	ND	None	13.75		5,330.60	0.66	
MW-4	6/22/2015	4.36	ND	None	13.72		5,332.28	1.68	
MW-4	9/1/2015	5.22	ND	None			5,331.42	-0.86	
MW-4	12/9/2015	6.35	ND	None	NM		5,330.29	-1.13	
MW-4	3/1/2016	7.53	ND	None	13.51		5,329.11	-1.18	

Table 3
Summary of Groundwater Monitoring Well Measurements

October 2010 - March 2016
1770 13th Street
Boulder, Colorado

Monitoring Well Location	Date	Depth to Groundwater BTOC [1] (feet)	Depth to Product BTOC [1] (feet)	Product Thickness (feet)	Total Depth (feet)	TOC Elevation[2] (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event [3] (feet)	Comments:
MW-5	10/4/2010	8.02	ND	None		5,338.13	5,330.11	NM	
MW-5	9/27/2011	8.17	ND	None			5,329.96	-0.15	
MW-5	1/16/2012	8.81	ND	None			5,329.32	-0.64	
MW-5	5/7/2012	6.57	ND	None			5,331.56	2.24	
MW-5	11/30/2012	8.33	ND	None	14.00	5,338.18	5,329.85	-1.76	Sheen
MW-5	3/20/2013	7.70	ND	None	13.56		5,330.48	0.63	Sheen
MW-5	6/13/2013	6.52	ND	None	13.44		5,331.66	1.18	
MW-5	9/9/2013	8.01	ND	None	13.40		5,330.17	-1.49	Sheen
MW-5	10/8/2013	8.45	ND	None	13.41		5,329.73	-0.44	
MW-5	12/11/2013	8.72	ND	None	13.41		5,329.46	-0.27	Sheen
MW-5	9/15/2014	7.14	ND	None	13.39		5,331.04	1.58	Sheen
MW-5	10/10/2014	7.70	ND	None	13.39		5,330.48	-0.56	Sheen
MW-5	12/3/2014	7.79	ND	None	12.90		5,330.39	-0.09	Sheen
MW-5	2/24/2015	7.95	ND	None	12.95		5,330.23	-0.16	Moderate HC odor on purge water
MW-5	6/22/2015	6.39	ND	None	12.86		5,331.79	1.56	Slight HC odor
MW-5	9/1/2015	7.20	ND	None	12.86		5,330.98	-0.81	Slight HC odor
MW-5	12/9/2015	8.35	ND	None	NM		5,329.83	-1.15	Slight HC odor
MW-5	3/1/2016	9.30	ND	None	12.78		5,328.88	-0.95	Moderate HC odor, discontinuous sheen
MW-6	10/4/2010	7.83	ND	None		5,337.51	5,329.68	NM	
MW-6	9/27/2011	8.05	ND	None			5,329.46	-0.22	
MW-6	1/16/2012	8.72	ND	None			5,328.79	-0.67	
MW-6	5/7/2012	6.32	ND	None			5,331.19	2.40	
MW-6	11/30/2012	8.17	ND	None	14.39	5,337.53	5,329.36	-1.85	
MW-6	3/20/2013	7.29	ND	None	14.39		5,330.24	0.88	
MW-6	6/13/2013	6.49	ND	None	14.38		5,331.04	0.80	
MW-6	9/9/2013	7.90	ND	None	14.41		5,329.63	-1.41	Sheen
MW-6	10/8/2013	8.59	ND	None	14.38		5,328.94	-0.69	
MW-6	12/11/2013	8.81	ND	None	14.41		5,328.72	-0.22	
MW-6	9/15/2014	7.28	ND	None	14.39		5,330.25	1.53	
MW-6	12/3/2014	7.88	ND	None	13.56		5,329.65	-0.60	
MW-6	2/24/2015	8.07	ND	None	13.58		5,329.46	-0.19	Moderate HC odor on purge water
MW-6	6/22/2015	6.65	ND	None	15.56		5,330.88	1.42	Strong HC odor
MW-6	9/1/2015	7.33	ND	None			5,330.20	-0.68	Slight HC odor
MW-6	12/9/2015	8.40	ND	None	NM		5,329.13	-1.07	Strong HC odor
MW-6	3/1/2016	9.40	ND	None	13.56		5,328.13	-1.00	Moderate HC odor
MW-7	11/30/2012	8.50	ND	None	14.67	5,337.69	5,329.19	NM	
MW-7	3/20/2013	7.96	ND	None	14.58		5,329.73	0.54	
MW-7	6/13/2013	7.09	ND	None	14.54		5,330.60	0.87	
MW-7	9/9/2013	8.25	ND	None	14.56		5,329.44	-1.16	
MW-7	10/8/2013	8.33	ND	None	14.55		5,329.36	-0.08	
MW-7	12/11/2013	9.07	ND	None	14.56		5,328.62	-0.74	
MW-7	9/15/2014	7.68	ND	None	14.55		5,330.01	1.39	
MW-7	12/3/2014	8.18	ND	None	13.50		5,329.51	-0.50	
MW-7	2/24/2015	8.18	ND	None	13.55		5,329.51	0.00	Moderate to Strong HC odor, discontinuous sheen on purge water
MW-7	6/22/2015	7.29	ND	None	13.55		5,330.40	0.89	Strong HC odor
MW-7	9/1/2015	7.86	ND	None			5,329.83	-0.57	Moderate HC odor
MW-7	12/9/2015	8.61	ND	None	NM		5,329.08	-0.75	Strong HC odor
MW-7	3/1/2016	9.20	ND	None	13.54		5,328.49	-0.59	Moderate HC odor
MW-8	11/30/2012	8.83	ND	None	13.95	5,338.44	5,329.61	NM	Sheen
MW-8	3/20/2013	8.27	ND	None	13.77		5,330.17	0.56	Sheen
MW-8	6/13/2013	7.24	ND	None	13.76		5,331.20	1.03	Sheen
MW-8	9/9/2013	8.53	ND	None	13.74		5,329.91	-1.29	Sheen
MW-8	10/8/2013	8.75	ND	None	13.74		5,329.69	-0.22	
MW-8	12/11/2013	9.21	ND	None	13.77		5,329.23	-0.46	Sheen
MW-8R	9/15/2014	8.26	ND	None	14.84	5,338.43	5,330.17	NM	Sheen
MW-8R	10/10/2014	8.34	ND	None	14.84		5,330.09	-0.08	Sheen
MW-8R	10/21/2014	8.63	ND	None			5,329.80	-0.29	
MW-8R	12/3/2014	8.49	ND	None	14.85		5,329.94	0.14	
MW-8R	2/24/2015	8.52	ND	None	14.85		5,329.91	-0.03	Well vault full of water/bentonite; Mod. odor on water. Water column <80%; sample taken EOD.
MW-8R	6/22/2015	7.45	ND	None	14.85		5,330.98	1.07	Slight HC odor. Water column <80%; sample collected EOD.
MW-8R	9/1/2015	8.02	ND	None			5,330.41	-0.57	Water column <80%; sample collected EOD.
MW-8R	12/9/2015	8.90	ND	None	NM		5,329.53	-0.88	Slight HC odor. Water column <80%; sample collected EOD.
MW-8R	3/1/2016	9.56	ND	None	14.83		5,328.87	-0.66	Water column <80%; sample collected EOD.
MW-9	4/11/2013	9.45	ND	None	15.59	5,340.77	5,331.32	NM	Sheen
MW-9	6/13/2013	8.41	ND	None	15.56		5,332.36	1.04	Sheen
MW-9	9/9/2013	9.91	ND	None	14.93		5,330.86	-1.50	Sheen
MW-9	10/8/2013	9.97	ND	None	15.57		5,330.80	-0.06	Approx. 0.63' of sediment in well bottom observed.
MW-9	12/11/2013	10.22	ND	None	15.35		5,330.55	-0.25	Sheen; approx. 0.20' of sediment in well bottom observed.
MW-10	6/13/2013	6.84	ND	None	13.93	5,337.47	5,330.63	NM	
MW-10	9/9/2013	8.02	ND	None	13.89		5,329.45	-1.18	
MW-10	10/8/2013	8.18	ND	None	13.90		5,329.29	-0.16	
MW-10	12/11/2013	8.83	ND	None	13.92		5,328.64	-0.65	
MW-10	9/15/2014	7.34	ND	None	13.95		5,330.13	1.49	
MW-10	12/3/2014	7.96	ND	None	13.80		5,329.51	-0.62	
MW-10	2/24/2015	8.03	ND	None	13.76		5,329.44	-0.07	Moderate HC odor
MW-10	6/22/2015	7.01	ND	None	13.75		5,330.46	1.02	Strong HC odor, black organics in purge water
MW-10	9/1/2015	7.60	ND	None			5,329.87	-0.59	Strong HC odor
MW-10	12/9/2015	8.40	ND	None	NM		5,329.07	-0.80	
MW-10	3/1/2016	8.97	ND	None	13.70		5,328.50	-0.57	Moderate HC odor

Table 3
Summary of Groundwater Monitoring Well Measurements

October 2010 - March 2016
1770 13th Street
Boulder, Colorado

Monitoring Well Location	Date	Depth to Groundwater BTOC [1] (feet)	Depth to Product BTOC [1] (feet)	Product Thickness (feet)	Total Depth (feet)	TOC Elevation[2] (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event [3] (feet)	Comments:
MW-11	9/15/2014	8.82	ND	None	18.18	5,340.23	5,331.41	NM	Sheen
MW-11	10/10/2014	9.31	ND	None	18.18		5,330.92	-0.49	Sheen
MW-11	10/21/2014	9.39	ND	None			5,330.84	-0.08	Sheen
MW-11	12/3/2014	9.40	ND	None	16.89		5,330.83	-0.01	Sheen
MW-11	2/24/2015	9.54	ND	None	13.83		5,330.69	-0.14	Slight HC odor
MW-11	6/22/2015	8.00	ND	None	16.72		5,332.23	1.54	Slight HC odor
MW-11	9/1/2015	8.90	ND	None			5,331.33	-0.90	Slight HC odor
MW-11	12/9/2015	9.86	ND	None	NM		5,330.37	-0.96	Slight HC odor
MW-11	3/1/2016	10.58	ND	None	16.28		5,329.65	-0.72	Slight HC odor, slight discontinuous sheen
MW-12	9/15/2014	10.62	ND	None	17.66	5,341.21	5,330.59	NM	Sheen. NOTE: Top of well casing approx. 2 ft. above ground surface awaiting completion of landscaping in area.
MW-12	10/10/2014	10.43	ND	None			5,330.78	0.19	Sheen. NOTE: Top of well casing approx. 2 ft. above ground surface awaiting completion of landscaping in area.
MW-12	10/21/2014	10.07	ND	None	15.46	5,339.18	5,329.11	0.36	NOTE: Top of well riser pipe cut to match new ground surface, new survey for top of well casing required.
MW-12	12/3/2014	8.54	ND	None	15.59		5,330.64	1.53	
MW-12	2/24/2015	7.9	ND	None	15.46		5,331.28	0.64	Moderate odor. Below tolerance after 3PV; sample collected EOD.
MW-12	6/22/2015	5.83	ND	None	15.65		5,333.35	2.07	Moderate odor. Below tolerance after 3PV; sample collected EOD.
MW-12	9/1/2015	6.33	ND	None			5,332.85	-0.50	Slight HC odor. Water column <80%; sample collected EOD.
MW-12	12/9/2015	6.55	ND	None	NM		5,332.63	-0.22	Moderate odor. Below tolerance after 3PV; sample collected EOD
MW-12	3/1/2016	7.21	ND	None	15.62		5,331.97	-0.66	Water column <80%; sample collected EOD.
MW-13	9/15/2014	6.22	ND	None	14.20	5,336.55	5,330.33	NM	
MW-13	12/3/2014	6.82	ND	None	14.30		5,329.73	-0.60	
MW-13	2/24/2015	7.01	ND	None	13.88		5,329.54	-0.19	
MW-13	6/22/2015	5.56	ND	None	13.49		5,330.99	1.45	
MW-13	9/1/2015	6.28	ND	None			5,330.27	-0.72	
MW-13	12/9/2015	7.36	ND	None	NM		5,329.19	-1.08	Organics in purge water, slight HC odor
MW-13	3/1/2016	8.38	ND	None	13.02		5,328.17	-1.02	
MW-14	2/24/2015	10.66	ND	None	17.80	5,341.56	5,330.90	NM	
MW-14	6/22/2015	9.01	ND	None	17.72		5,332.55	1.65	
MW-14	9/1/2015	9.99	ND	None			5,331.57	-0.98	
MW-14	12/9/2015	10.96	ND	None	NM		5,330.60	-0.97	Strong HC odor, sheen on purge water
MW-14	3/1/2016	11.61	ND	None	17.21		5,329.95	-0.65	
MW-15	2/24/2015	10.24	ND	None	17.20	5,341.09	5,330.85	NM	Moderate to strong odor; black particulate in the water
MW-15	6/22/2015	8.59	ND	None	16.79		5,332.50	1.65	Strong HC odor; black organic particulates in purge water
MW-15	9/1/2015	9.58	ND	None			5,331.51	-0.99	Strong HC odor; discontinuous sheen
MW-15	12/9/2015	10.54	ND	None	NM		5,330.55	-0.96	
MW-15	3/1/2016	11.21	ND	None	16.46		5,329.88	-0.67	Strong HC odor, sheen
MW-16	2/24/2015	8.27	ND	None	13.57	5,338.62	5,330.35	NM	Mod HC odor, sheen; Dry at 1.25PV. Sampled collected EOD.
MW-16	6/22/2015	6.71	ND	None	13.56		5,331.91	1.56	Moderate to strong HC odor, sheen; near dry at 3 PV; recharged prior to sampling.
MW-16	9/1/2015	7.58	ND	None			5,331.04	-0.87	Moderate HC odor, discontinuous sheen
MW-16	12/9/2015	8.64	ND	None	NM		5,329.98	-1.06	Moderate to strong HC odor, sheen; near dry at 3 PV; recharged prior to sampling.
MW-16	3/1/2016	9.54	ND	None	13.70		5,329.08	-0.90	Moderate HC odor, sheen. Purged dry after 1 PV; recharged prior to sampling.
EW-1	9/1/2015	7.04	ND	None	11.47	NM	NM	NM	HC odor noted on interface probe
EW-1	12/9/2015	7.97	ND	None		NM	NM	NM	HC odor noted on interface probe
EW-1	3/1/2016	8.23	ND	None	11.28	NM	NM	NM	HC odor and slight sheen noted on interface probe

Notes:
1 - Depths to groundwater/product measured from the north edge of the well casing. Measurements prior to 11/30/12, were collected by others.
2 - Monitoring wells MW-1 through MW-8 were surveyed on December 3, 2012 by Flagstaff Surveying, Inc. to NAVD 88 datum. Monitoring wells MW-9 and MW-10 were surveyed on April 26 and June 11, 2013, respectively, by Flagstaff Surveying, Inc. to NAVD 88 datum. Monitoring wells MW-3R, MW-8R, MW-11, MW-12, and MW-13 were surveyed on September 22, 2014. Monitoring wells MW-14, MW-15, and MW-16 were surveyed on March 13, 2015.
3 - Change in groundwater elevation is based on the change in elevation since the most recent measuring event. Change in groundwater elevations calculated for 09/01/2015 are based on depth to water measurements between September 2015 and December 2015.
4 - Water level gauging only event performed on October 8, 2013, no sampling completed.

amsl - above mean sea level
BTOC - below top of casing
TOC - top of casing
ND - not detected
NM - not measured
Sheen - sheen observed on water surface during purging activities for sample collection.
EOD - End of Day

TABLE 4
Summary of VOC and TPH Analytical Results in Groundwater
1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Chlorodibromomethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene
		Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)																																
Colorado Basic Standards for Groundwater(1)		5.0	56.0		0.56	4.0					5.0	100		3.5		14.0			0.2	0.018		600	94.0	75.0			5.0	7.0	70.0	100	5.0			
MW-1	10/4/2010	ND(<1.0)	NA	NA	ND(<2.0)	ND(<4.0)	ND(<4.0)	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	NA	NA	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA
MW-1	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	9/15/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	12/3/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	2/24/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	6/22/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	9/1/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	12/9/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-1	3/1/2016	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	10/4/2010	ND(<1.0)	NA	NA	ND(<2.0)	ND(<4.0)	ND(<4.0)	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	NA	NA	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA
MW-2	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	6/13/2013	1.09	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	9/15/2014	0.92	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	12/3/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	2/24/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	6/22/2015	0.59	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	9/1/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	12/9/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-2	3/1/2016	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3	10/4/2010	8.4	NA	NA	ND(<10)	ND(<20)	ND(<20)	NA	NA	NA	ND(<10)	ND(<10)	ND(<20)	ND(<10)	ND(<20)	ND(<10)	NA	NA	NA	NA	NA	ND(<10)	ND(<10)	ND(<10)	NA	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	NA
MW-3	12/3/2012	26.0	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3-DUP	12/3/2012	28.0	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3	3/20/2013	7.04	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3	6/13/2013	7.44	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3	9/9/2013	4.66	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3	12/11/2013	692	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3-DUP	12/11/2013	619	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3R	9/16/2014	110	ND(<25)	NA	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<63)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)
MW-3R	10/10/2014	170	ND(<50)	NA	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<250)	ND(<130)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)
MW-3R	10/21/2014	300	ND(<50)	NA	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<250)	ND(<130)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)
MW-3R	12/4/2014	170	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	0.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3R	2/24/2015	190	ND(<50)	NA	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<250)	ND(<2.5)	ND(<130)	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)
MW-3R	6/23/2015	140	ND(<50)	NA	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<250)	ND(<130)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)
MW-3R	9/1/2015	57.1	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	1.92	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3R	12/9/2015	329	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	1.61	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-3R	3/2/2016	311	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	1.56	0.628	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)

TABLE 4
Summary of VOC and TPH Analytical Results in Groundwater
1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Chlorodibromomethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene
		Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)																																
Colorado Basic Standards for Groundwater(1)		5.0	56.0		0.56	4.0					5.0	100		3.5		14.0			0.2	0.018		600	94.0	75.0			5.0	7.0	70.0	100	5.0			
MW-4	10/4/2010	ND(<1.0)	NA	NA	ND(<2.0)	ND(<4.0)	ND(<4.0)	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	NA	NA	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA
MW-4	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	9/16/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	12/3/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	2/24/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	6/22/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	9/1/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	12/9/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-4	3/1/2016	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	10/4/2010	0.46	NA	NA	ND(<2.0)	ND(<4.0)	ND(<4.0)	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	NA	NA	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA
MW-5	12/3/2012	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5-DUP	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	12/11/2013	4.72	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	9/15/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	10/10/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	12/3/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	2/24/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5-DUP	2/24/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	6/22/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	0.9	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	9/1/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	12/9/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-5	3/1/2016	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	10/4/2010	0.71	NA	NA	ND(<2.0)	ND(<4.0)	ND(<4.0)	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	ND(<4.0)	ND(<2.0)	NA	NA	NA	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA
MW-6	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6-DUP	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	12/11/2013	7.38	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	9/15/2014	ND(<5.0)	ND(<5.0)	NA	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<13)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)
MW-6	12/4/2014	0.53	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	2/24/2015	ND(<5.0)	ND(<5.0)	NA	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<25)	ND(<13)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)
MW-6	6/22/2015	ND(<5.0)	ND(<5.0)	NA	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<25)	ND(<13)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)
MW-6	9/1/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	12/9/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-6	3/2/2016	0.5	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)

TABLE 4
Summary of VOC and TPH Analytical Results in Groundwater
1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Chlorodibromomethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene
		Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)																																
Colorado Basic Standards for Groundwater(1)		5.0	56.0		0.56	4.0					5.0	100		3.5		14.0			0.2	0.018		600	94.0	75.0			5.0	7.0	70.0	100	5.0			
MW-7	12/3/2012	28.0	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	3/20/2013	17.6	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	6/13/2013	11.1	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	9/9/2013	10.7	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	12/11/2013	361	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	9/15/2014	20	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	0.70	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	12/4/2014	100	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	1	0.58	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	2/24/2015	85	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	6/23/2015	43	ND(<5.0)	NA	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)
MW-7	9/1/2015	19	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	0.62	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	12/9/2015	85	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	0.67	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7-DUP	12/9/2015	86	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	0.83	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-7	3/2/2016	139	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	1.16	0.512	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8	12/3/2012	780	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8	3/20/2013	309	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8	6/13/2013	696	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	8.10	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8	9/9/2013	637	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	7.47	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8	12/11/2013	712	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8R	9/16/2014	6.1	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8R	10/10/2014	5.9	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	ND(<10)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<10)	ND(<10)	ND(<5.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<10)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<10)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)
MW-8R	10/21/2014	5.8	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	ND(<10)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<10)	ND(<10)	ND(<5.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<10)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<10)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)
MW-8R	12/4/2014	84	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	0.91	0.48	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8R	2/24/2015	3.5	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8R	6/23/2015	6.5	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8R-DUP	6/23/2015	5.5	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8R	9/1/2015	4	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8R	12/9/2015	1.04	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-8R	3/2/2016	2.27	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-9	4/11/2013	5.47	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	6.10	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-9	6/13/2013	1.03	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.81	3.21	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-9	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-9-DUP	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.82	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-9	12/11/2013	1.29	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10	9/9/2013	9.60	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10	12/11/2013	173	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10	9/15/2014	3.2	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	26	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10-DUP	9/15/2014	5.4	ND(<1.0)	NA	0.70	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	22	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10	12/4/2014	14	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	1	0.41	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10-DUP	12/4/2014	16	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	1.1	0.42	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10	2/24/2015	12	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	0.59	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10	6/23/2015	11	ND(<20)	NA	ND(<20)	ND(<20)	ND(<100)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<100)	ND(<100)	ND(<50)	ND(<20)	ND(<20)	ND(<20)	ND(<100)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<100)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)
MW-10	9/1/2015	23.1	ND(<5.0)	NA	ND(<5.0)	ND(<5.0)	ND(<25)	2.17	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<25)	ND(<12.5)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)
MW-10-DUP	9/1/2015	20.4	ND(<5.0)	NA	ND(<5.0)	ND(<5.0)	ND(<25)	2.19	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<25)	ND(<12.5)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)
MW-10	12/9/2015	10.1	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	0.84	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10	3/2/2016	38.1	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	0.767	0.388	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-10-DUP	3/2/2016	35.7	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	0.664	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)

TABLE 4
Summary of VOC and TPH Analytical Results in Groundwater
1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Chlorodibromomethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene
		Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)																																
Colorado Basic Standards for Groundwater[(1)]		5.0	56.0		0.56	4.0					5.0	100		3.5		14.0			0.2	0.018		600	94.0	75.0			5.0	7.0	70.0	100	5.0			
MW-11	9/16/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-11	10/10/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-11	10/21/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-11	12/3/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-11	2/24/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-11	6/22/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-11	9/1/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-11	12/9/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-11	3/1/2016	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-12	9/16/2014	87	ND(<10)	NA	ND(<10)	ND(<10)	ND(<50)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<50)	ND(<25)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)
MW-12	10/10/2014	17	ND(<25)	NA	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<63)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)
MW-12	10/21/2014	15	ND(<25)	NA	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<130)	ND(<63)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)
MW-12	12/4/2014	8.7	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-12	2/24/2015	1.9	ND(<5.0)	NA	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<25)	ND(<13)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)
MW-12	6/23/2015	1.7	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-12	9/1/2015	1.23	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-12	12/9/2015	1.09	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-12	3/2/2016	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-13	9/15/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-13	12/3/2014	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-13	2/24/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-13	6/22/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-13	9/1/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-13	12/9/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-13	3/2/2016	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-14	2/24/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-14	6/23/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-14	9/1/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-14	12/9/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-14	3/1/2016	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-15	2/24/2015	ND(<25)	ND(<25)	NA	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<130)	ND(<63)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)
MW-15	6/23/2015	ND(<5.0)	ND(<5.0)	NA	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<25)	ND(<13)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)
MW-15	9/1/2015	2.73	ND(<5.0)	NA	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<25)	ND(<12.5)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)
MW-15	12/9/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-15	3/2/2016	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-16	2/24/2015	4.9	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	0.95	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-16	6/23/2015	0.46	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-16	9/1/2015	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-16	12/9/2015	2.54	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
MW-16	3/2/2016	35.2	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)

TABLE 4

Summary of VOC and TPH Analytical Results in Groundwater

1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Chlorodibromomethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene
		Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)																																
Colorado Basic Standards for Groundwater[1]		5.0	56.0		0.56	4.0					5.0	100		3.5		14.0			0.2	0.018		600	94.0	75.0			5.0	7.0	70.0	100	5.0			
SPWATER[4]	11/27/2012	3,170	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
NPWATER[5]	11/28/2012	4,000	ND(<1.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
HOLDER[6]	12/6/2012	2,400,000	ND(<10,000)	ND(<50,000)	ND<20,000	ND(<10,000)	ND(<10,000)	150,000	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<50,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)
RH-EX-FLUID-01[7]	3/25/2013	405	ND(<10)	ND(<50)	ND(<20)	ND(<10)	51.8	471	92.8	1,770	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<10)	ND(<10)	493	ND(<10)	522	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)
RH-EX-FLUID-02[7]	3/25/2013	114	ND(<10)	ND(<50)	ND(<20)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)
FluidSample[8]	1/31/2014	3,300	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<5.0)	0.94	0.53	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
RH-FLUID[9]	2/13/2014	3,300	ND(<10)	NA	ND(<10)	ND(<10)	ND(<50)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<50)	ND(<25)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<10)	ND(<10)	ND(<10)	3.0	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)
RHFLUID2[9]	2/14/2014	12,000	ND(<500)	NA	ND(<500)	ND(<500)	ND(<2,500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<2,500)	ND(<2,500)	ND(<1,300)	ND(<500)	ND(<500)	ND(<500)	ND(<2,500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<2,500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)
COB_GW1_022514[10]	2/25/2014	ND(<20)	ND(<20)	NA	ND(<20)	ND(<20)	ND(<100)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<100)	ND(<100)	ND(<50)	ND(<20)	ND(<20)	ND(<20)	ND(<100)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<100)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)

TABLE 4
Summary of VOC and TPH Analytical Results in Groundwater
1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)																															TPH-DRO (EPA method 8015)
		cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	Tert-amyl methyl ether	Tert-butyl alcohol	Ethyl tert-butyl ether	Isopropylbenzene	Di-Isopropyl Ether	p-Isopropyltoluene	Methylene Chloride	Methyl tert-butyl ether	Naphthalene	n-Propylbenzene	Styrene	1,1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	TPH-GRO	
Colorado Basic Standards for Groundwater[1]				700	0.45								20[2]	140		100	0.18		5	1,000		70	5	200	5		0.00034			2	10,000	10,000		
MW-1	10/4/2010	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	NA	NA	NA	ND(<5.0)	ND(<2.0)	NA	NA	ND(<4.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	ND(<2.0)	NA	ND(<2.0)[3]	NA	NA
MW-1	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	ND(<500)	ND(<5,000)
MW-1	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-1	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-1	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-1	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<3.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-1	9/15/2014	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	1.1	ND(<1.0)	NA	4.8[3]	NA	NA
MW-1	12/3/2014	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-1	2/24/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-1	6/22/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-1	9/1/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	1.72	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-1	12/9/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	0.06	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-1	3/1/2016	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-2	10/4/2010	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	NA	NA	NA	ND(<5.0)	ND(<2.0)	NA	NA	ND(<4.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	ND(<2.0)	NA	ND(<2.0)[3]	NA	NA
MW-2	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	ND(<500)	ND(<5,000)
MW-2	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-2	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-2	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-2	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-2	9/15/2014	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	0.49	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-2	12/3/2014	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-2	2/24/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-2	6/22/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	15	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-2	9/1/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	0.41	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	2.46	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	1.85[3]	NA	NA
MW-2	12/9/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-2	3/1/2016	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-3	10/4/2010	ND(<10)	ND(<10)	227	NA	NA	NA	NA	NA	NA	NA	ND(<25)	11.6	NA	NA	ND(<20)	ND(<10)	NA	ND(<10)	24.3	NA	NA	ND(<10)	ND(<10)	ND(<10)	NA	NA	NA	NA	ND(<10)	NA	189[3]	NA	NA
MW-3	12/3/2012	ND(<1.0)	ND(<1.0)	60	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	11.0	ND(<5.0)	4.3	ND(<5.0)	ND(<5.0)	800	2.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	7.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	11	11	ND(<1.0)	12	31	1,600	6,190
MW-3 DUP	12/3/2012	ND(<1.0)	ND(<1.0)	62	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	12.0	ND(<5.0)	4.9	ND(<5.0)	ND(<5.0)	740	3.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	7.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	12	12	ND(<1.0)	13	35	1,700	NA
MW-3	3/20/2013	ND(<1.0)	ND(<1.0)	41.4	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	11.1	ND(<5.0)	4.07	ND(<5.0)	ND(<5.0)	NA	3.02	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.84	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	10.3	8.59	ND(<1.0)	9.62	23.6	NA	NA
MW-3	6/13/2013	ND(<1.0)	ND(<1.0)	77.2	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	17.3	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	3.45	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	15.6	57.2	ND(<1.0)	19.5	34.3	NA	NA
MW-3	9/9/2013	ND(<1.0)	ND(<1.0)	44.4	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	11.9	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	184	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.66	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	7.84	29.4	ND(<1.0)	7.22	24.4	NA	NA
MW-3	12/11/2013	ND(<1.0)	ND(<1.0)	521	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	39.8	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	11.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	85.5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	38.5	45.9	ND(<1.0)	95.6	182	NA	NA
MW-3 DUP	12/11/2013	ND(<1.0)	ND(<1.0)	510	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	40.0	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	10.8	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	80.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	37.6	43.3	ND(<1.0)	96.0	181	NA	NA
MW-3R	9/16/2014	ND(<25)	ND(<25)	590	ND(<25)	NA	NA	NA	57.0	ND(<25)	22	ND(<130)	ND(<25)	6,700	17	9.2	ND(<25)	ND(<25)	ND(<25)	140	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<63)	ND(<130)	82	230	ND(<25)	NA	490[3]	NA	NA
MW-3R	10/10/2014	ND(<50)	ND(<50)	640	ND(<50)	NA	NA	NA	68.0	ND(<50)	34	ND(<250)	ND(<50)	8,000	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	140	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<130)	110	290	ND(<50)	NA	610[3]	NA	NA
MW-3R	10/21/2014	ND(<50)	ND(<50)	530	ND(<50)	NA	NA	NA	62.0	ND(<50)	ND(<50)	ND(<250)	ND(<50)	7,000	20	ND(<50)	ND(<50)	ND(<50)	ND(<50)	60	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<130)	88	250	ND(<50)	NA	500[3]	NA	NA
MW-3R	12/4/2014	ND(<1.0)	ND(<1.0)	440	ND(<1.0)	NA	NA	NA	40.0	ND(<1.0)	7.3	ND(<5.0)	ND(<1.0)	5,300	12	1.8	ND(<1.0)	ND(<1.0)	ND(<1.0)	22	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.5)	ND(<2.5)	57	160	ND(<1.0)	NA	210[3]	NA	NA
MW-3R	2/24/2015	ND(<50)	ND(<50)	270	ND(<50)	NA	NA	NA	36.0	ND(<50)	ND(<50)	ND(<250)	ND(<50)	3,000	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<2.5)	53	140	ND(<50)	NA	160[3]	NA	NA
MW-3R	6/23/2015	ND(<50)	ND(<50)	200	ND(<50)	NA	NA	NA	30.0	ND(<50)	ND(<50)	ND(<250)	ND(<50)	2,300	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<50)	ND(<250)	ND(<130)	41	110	ND(<50)	NA	140[3]	NA	NA
MW-3R	9/1/2015	ND(<1.0)	ND(<1.0)	152	ND(<1.0)	NA	NA	NA	29.1	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	1	9.87	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	6.49	ND(<1.0)	ND(<1.0)	0.90	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	39.2	105	ND(<1.0)	NA	83.7[3]	NA	NA
MW-3R	12/9/2015	ND(<1.0)	ND(<1.0)	340	ND(<1.0)	NA	NA	NA	36.0	ND(<1.0)	3.1	ND(<5.0)	ND(<1.0)	1,820	10.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	21.3	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	41.0	116	ND(<1.0)	NA	185[3]	NA	NA
MW-3R	3/2/2016	ND(<1.0)	ND(<1.0)	442	ND(<1.0)	NA	NA	NA	37.4	ND(<1.0)	2.81	ND(<5.0)	ND(<1.0)	1,650	11.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	19.0	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	42.0	134	ND(<1.0)	NA	203[3]	NA	NA

TABLE 4
Summary of VOC and TPH Analytical Results in Groundwater
1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)																															TPH-DRO (EPA method 8015)
		cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	Tert-amyl methyl ether	Tert-butyl alcohol	Ethyl tert-butyl ether	Isopropylbenzene	Di-Isopropyl Ether	p-Isopropyltoluene	Methylene Chloride	Methyl tert-butyl ether	Naphthalene	n-Propylbenzene	Styrene	1,1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	TPH-GRO	
Colorado Basic Standards for Groundwater[1]				700	0.45								20[2]	140		100	0.18		5	1,000		70	5	200	5		0.00034			2	10,000	10,000		
MW-4	10/4/2010	ND(<2.0)	ND(<2.0)	1.2	NA	NA	NA	NA	NA	NA	NA	ND(<5.0)	ND(<2.0)	NA	NA	ND(<4.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	ND(<2.0)	NA	3.7[3]	NA	NA
MW-4	11/30/2012	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	2.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	NA	NA
MW-4	3/20/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	NA	NA
MW-4	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	NA	NA
MW-4	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	NA	NA
MW-4	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	NA	NA
MW-4	9/16/2014	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	5.0	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-4	12/3/2014	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	1.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	0.65	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-4	2/24/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	2.6	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-4	6/22/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	2.2	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-4	9/1/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	57	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	0.51	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-4	12/9/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	1.01	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-4	3/1/2016	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-5	10/4/2010	ND(<2.0)	ND(<2.0)	53.6	NA	NA	NA	NA	NA	NA	NA	ND(<5.0)	ND(<2.0)	NA	NA	ND(<4.0)	ND(<2.0)	NA	ND(<2.0)	2.2	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	ND(<2.0)	NA	58.7[3]	NA	NA
MW-5	12/3/2012	ND(<1.0)	ND(<1.0)	2.9	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	4.9	ND(<5.0)	4.5	ND(<5.0)	ND(<5.0)	1,000	3.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	4.8	12	ND(<1.0)	ND(<2.0)	1.6	1,400	6,880
MW-5	3/20/2013	ND(<1.0)	ND(<1.0)	1.23	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	1.73	ND(<5.0)	1.47	ND(<5.0)	ND(<5.0)	NA	1.08	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.63	4.33	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-5-DUP	3/20/2013	ND(<1.0)	ND(<1.0)	1.21	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	1.69	ND(<5.0)	1.49	ND(<5.0)	ND(<5.0)	NA	1.14	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.60	4.35	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-5	6/13/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-5	9/9/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	11.3	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.89	ND(<1.0)	ND(<2.0)	ND(<1.0)	NA	NA
MW-5	12/11/2013	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)	1.37	NA	NA
MW-5	9/15/2014	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	1.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-5	10/10/2014	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	1.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	0.93	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-5	12/3/2014	ND(<1.0)	ND(<1.0)	0.38	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	1.6	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	1.3	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-5	2/24/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	2.5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	1.1	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-5-DUP	2/24/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	4.6	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	1.4	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-5	6/22/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	1.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-5	9/1/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	28.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	0.71	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-5	12/9/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	0.339	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	1.03	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	0.73	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-5	3/1/2016	ND(<1.0)	ND(<1.0)	0.507	ND(<1.0)	NA	NA	NA	0.463	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	5.60	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	0.397	1.89	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-6	10/4/2010	ND(<2.0)	ND(<2.0)	30	NA	NA	NA	NA	NA	NA	NA	ND(<5.0)	ND(<2.0)	NA	NA	ND(<4.0)	ND(<2.0)	NA	ND(<2.0)	ND(<2.0)	NA	NA	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	NA	ND(<2.0)	NA	21.6[3]	NA	NA
MW-6	11/30/2012	ND(<2.0)	ND(<1.0)	8.8	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	2.4	ND(<5.0)	1.7	ND(<5.0)	ND(<5.0)	270	1.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.5	4.2	ND(<1.0)	NA	5.3	NA	NA
MW-6	3/20/2013	ND(<2.0)	ND(<1.0)	22.4	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	5.98	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	2.54	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.78	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	5.80	9.20	ND(<1.0)	NA	11.2	NA	NA
MW-6	6/13/2013	ND(<2.0)	ND(<1.0)	29.7	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	7.83	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	10.90	38.80	ND(<1.0)	NA	15.4	NA	NA
MW-6-DUP	6/13/2013	ND(<2.0)	ND(<1.0)	19.8	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	5.13	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.68	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	6.52	26.0	ND(<1.0)	NA	10.1	NA	NA
MW-6	9/9/2013	ND(<2.0)	ND(<1.0)	18.7	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	4.17	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	395	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.29	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	6.02	20.9	ND(<1.0)	NA	8.51	NA	NA
MW-6	12/11/2013	ND(<2.0)	ND(<1.0)	98.0	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	16.6	ND(<5.0)	4.31	ND(<5.0)	ND(<5.0)	NA	6.02	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	9.55	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	16.6	20.0	ND(<1.0)	NA	44.5	NA	NA
MW-6	9/15/2014	ND(<5.0)	ND(<5.0)	15	ND(<5.0)	NA	NA	NA	3.1	ND(<5.0)	1.9	ND(<25)	ND(<5.0)	220	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<13)	3.8	15	ND(<5.0)	NA	12[3]	NA	NA
MW-6	12/4/2014	ND(<1.0)	ND(<1.0)	11	ND(<1.0)	NA	NA	NA	2.9	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	250	1.2	0.35	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	4.1	14	ND(<1.0)	NA	9.8[3]	NA	NA
MW-6	2/24/2015	ND(<5.0)	ND(<5.0)	11	ND(<5.0)	NA	NA	NA	2.6	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	210	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<13)	3.9	13	ND(<5.0)	NA	9.6[3]	NA	NA
MW-6	6/22/2015	ND(<5.0)	ND(<5.0)	27	ND(<5.0)	NA	NA	NA	7.7	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	780	3.1	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<13)	12	40	ND(<5.0)	NA	29[3]	NA	NA
MW-6	9/1/2015	ND(<1.0)	ND(<1.0)	0.93	ND(<1.0)	NA	NA	NA	0.44	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	35.2	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	0.63	2.48	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-6	12/9/2015	ND(<1.0)	ND(<1.0)	4.01	ND(<1.0)	NA	NA	NA	1.24	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	52.1	0.55	0.51	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	1.64	5.63	ND(<1.0)	NA	3.35[3]	NA	NA
MW-6	3/2/2016	ND(<1.0)	ND(<1.0)	6.14	ND(<1.0)	NA	NA	NA	1.85	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	56.4	0.765	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	2.02	8.57	ND(<1.0)	NA	4.87[3]	NA	NA

TABLE 4
Summary of VOC and TPH Analytical Results in Groundwater
1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	Tert-amyl methyl ether	Tert-butyl alcohol	Ethyl tert-butyl ether	Isopropylbenzene	Di-Isopropyl Ether	p-Isopropyltoluene	Methylene Chloride	Methyl tert-butyl ether	Naphthalene	n-Propylbenzene	Styrene	1,1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	TPH-GRO	TPH-DRO (EPA method 8015)
		Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)																																
Colorado Basic Standards for Groundwater[1]				700	0.45								20[2]	140		100	0.18		5	1,000		70	5	200	5		0.00034			2	10,000	10,000		
MW-7	12/3/2012	ND(<1.0)	ND(<1.0)	30	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	9.3	ND(<5.0)	2.0	ND(<5.0)	ND(<5.0)	120	1.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	7.8	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	9.2	4.2	ND(<1.0)	5.8	35	1,200	ND(<5,000)
MW-7	3/20/2013	ND(<1.0)	ND(<1.0)	22.2	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	10.6	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.78	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	9.08	2.04	ND(<1.0)	5.15	36.1	NA	NA
MW-7	6/13/2013	ND(<1.0)	ND(<1.0)	24.8	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	12.2	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.62	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.64	20.4	ND(<1.0)	4.34	35.6	NA	NA
MW-7	9/9/2013	ND(<1.0)	ND(<1.0)	16.2	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	11.7	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	37	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.78	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.77	14.4	ND(<1.0)	ND(<2.0)	32.4	NA	NA
MW-7	12/11/2013	ND(<1.0)	ND(<1.0)	139	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	21	ND(<5.0)	3.26	ND(<5.0)	ND(<5.0)	NA	3.41	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	15.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	20.2	8.91	ND(<1.0)	12.4	112	NA	NA
MW-7	9/15/2014	ND(<1.0)	ND(<1.0)	36	ND(<1.0)	NA	NA	NA	16	ND(<1.0)	2.3	ND(<5.0)	ND(<1.0)	420	2.3	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.6	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	1.8	24	ND(<1.0)	NA	51[3]	NA	NA
MW-7	12/4/2014	ND(<1.0)	ND(<1.0)	100	ND(<1.0)	NA	NA	NA	23	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	340	4.3	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	5.8	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	9.2	39	ND(<1.0)	NA	86[3]	NA	NA
MW-7	2/24/2015	ND(<1.0)	ND(<1.0)	90	ND(<1.0)	NA	NA	NA	19	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	360	3.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	6.1	39	ND(<1.0)	NA	75[3]	NA	NA
MW-7	6/23/2015	ND(<5.0)	ND(<5.0)	54	ND(<5.0)	NA	NA	NA	18	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	460	3	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<13)	4.1	36	ND(<5.0)	NA	69[3]	NA	NA
MW-7	9/1/2015	ND(<1.0)	ND(<1.0)	39.1	ND(<1.0)	NA	NA	NA	13.3	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	265	1.95	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.09	ND(<1.0)	ND(<1.0)	0.64	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	1.86	19.9	ND(<1.0)	NA	46.8[3]	NA	NA
MW-7	12/9/2015	ND(<1.0)	ND(<1.0)	79.3	ND(<1.0)	NA	NA	NA	16.8	ND(<1.0)	0.411	ND(<5.0)	ND(<1.0)	243	2.77	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	6.41	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	6.21	28.4	ND(<1.0)	NA	68.4[3]	NA	NA
MW-7-DUP	12/9/2015	ND(<1.0)	ND(<1.0)	80	ND(<1.0)	NA	NA	NA	18.1	ND(<1.0)	3.88	ND(<5.0)	ND(<1.0)	221	3.13	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	6.28	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	6.54	32.1	ND(<1.0)	NA	70.8[3]	NA	NA
MW-7	3/2/2016	ND(<1.0)	ND(<1.0)	133	ND(<1.0)	NA	NA	NA	21.1	ND(<1.0)	4.71	ND(<5.0)	ND(<1.0)	190	4.42	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	4.78	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	7.83	47.5	ND(<1.0)	NA	105[3]	NA	NA
MW-8	12/3/2012	ND(<1.0)	ND(<1.0)	710	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	55	ND(<5.0)	8.6	ND(<5.0)	ND(<5.0)	4,700	16	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	210	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	47	62	ND(<1.0)	220	270	9,700	26,000
MW-8	3/20/2013	ND(<1.0)	ND(<1.0)	310	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	31.7	ND(<5.0)	6.46	ND(<5.0)	ND(<5.0)	NA	10.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	21.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	27.5	44.2	ND(<1.0)	103	126	NA	NA
MW-8	6/13/2013	ND(<1.0)	ND(<1.0)	514	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	39.5	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	30.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	60.9	165	ND(<1.0)	137	164	NA	NA
MW-8	9/9/2013	ND(<1.0)	ND(<1.0)	664	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	45.3	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	7,300	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	44.8	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	65.6	184	ND(<1.0)	134	196	NA	NA
MW-8	12/11/2013	ND(<1.0)	ND(<1.0)	804	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	63	ND(<5.0)	11.1	ND(<5.0)	ND(<5.0)	NA	19	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	71.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	57.5	79.7	ND(<1.0)	177	272	NA	NA
MW-8R	9/16/2014	ND(<1.0)	ND(<1.0)	0.39	ND(<1.0)	NA	NA	NA	1.3	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	250	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.2	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	3.8	11	ND(<1.0)	NA	25[3]	NA	NA
MW-8R	10/10/2014	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	NA	NA	NA	3.4	ND(<2.0)	1.2	ND(<2.0)	ND(<2.0)	340	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<10)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<10)	ND(<5.0)	6.1	16	ND(<2.0)	NA	19[3]	NA	NA
MW-8R	10/21/2014	ND(<2.0)	ND(<2.0)	4.4	ND(<2.0)	NA	NA	NA	2	ND(<2.0)	ND(<2.0)	ND(<10)	ND(<2.0)	280	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<10)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<10)	ND(<5.0)	4	10	ND(<2.0)	NA	19[3]	NA	NA
MW-8R	12/4/2014	ND(<1.0)	ND(<1.0)	89	ND(<1.0)	NA	NA	NA	20	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	400	3.6	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	4.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	8	33	ND(<1.0)	NA	74[3]	NA	NA
MW-8R	2/24/2015	ND(<1.0)	ND(<1.0)	0.67	ND(<1.0)	NA	NA	NA	0.78	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	79	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	3.40	1.2	ND(<1.0)	NA	4.5[3]	NA	NA
MW-8R	6/23/2015	ND(<1.0)	ND(<1.0)	1.7	ND(<1.0)	NA	NA	NA	0.70	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	30	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	0.66	2.5	ND(<1.0)	NA	5.7[3]	NA	NA
MW-8R-DUP	6/23/2015	ND(<1.0)	ND(<1.0)	1.4	ND(<1.0)	NA	NA	NA	0.64	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	28	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	0.59	2.4	ND(<1.0)	NA	5.1[3]	NA	NA
MW-8R	9/1/2015	ND(<1.0)	ND(<1.0)	0.91	ND(<1.0)	NA	NA	NA	1.22	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	39.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	0.57	4.29	ND(<1.0)	NA	5.49[3]	NA	NA
MW-8R	12/9/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	0.97	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	7.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	3.07	ND(<1.0)	NA	3.71[3]	NA	NA
MW-8R	3/2/2016	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	1.03	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	4.19	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	2.40	ND(<1.0)	NA	4.49[3]	NA	NA
MW-9	4/11/2013	ND(<1.0)	ND(<1.0)	53.5	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	14.7	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	177	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.86	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	50.4	120	ND(<1.0)	200	13	NA	NA
MW-9	6/13/2013	ND(<1.0)	ND(<1.0)	16.5	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	7.12	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	23.1	58.0	ND(<1.0)	51.9	6.61	NA	NA
MW-9	9/9/2013	ND(<1.0)	ND(<1.0)	11.0	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	4.56	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	30.8	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	5.49	21.5	ND(<1.0)	5.51	4.43	NA	NA
MW-9-DUP	9/9/2013	ND(<1.0)	ND(<1.0)	10.8	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	4.52	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	51.5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	5.25	23.2	ND(<1.0)	5.62	4.31	NA	NA
MW-9	12/11/2013	ND(<1.0)	ND(<1.0)	3.0	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	2.14	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.12	1.94	ND(<1.0)	4.7	5.17	NA	NA
MW-10	6/13/2013	ND(<1.0)	ND(<1.0)	3.08	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.49	ND(<1.0)	ND(<2.0)	1.49	NA	NA
MW-10	9/9/2013	ND(<1.0)	ND(<1.0)	78.8	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	25.1	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	1010	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	9.88	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	18.4	83.8	ND(<1.0)	36.7	67.0	NA	NA
MW-10	12/11/2013	ND(<1.0)	ND(<1.0)	16.4	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	14.2	ND(<5.0)	2.03	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	4.47	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	14.0	3.22	ND(<1.0)	5.0	58.0	NA	NA
MW-10	9/15/2014	ND(<1.0)	ND(<1.0)	27	ND(<1.0)	NA	NA	NA	5.3	ND(<1.0)	1.7	ND(<5.0)	ND(<1.0)	340	1.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	6.7	24	ND(<1.0)	NA	28[3]	NA	NA
MW-10-DUP	9/15/2014	ND(<1.0)	ND(<1.0)	45	ND(<1.0)	NA	NA	NA	7.3	ND(<1.0)	2	ND(<5.0)	ND(<1.0)	630	1.9	0.32	ND(<1.0)	ND(<1.0)	ND(<1.0)	3.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	9.0	32	ND(<1.0)	NA	45[3]	NA	NA
MW-10	12/4/2014	ND(<1.0)	ND(<1.0)	40	ND(<1.0)	NA	NA	NA	19	ND(<1.0)	3.4	ND(<5.0)	ND(<1.0)	460	3.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	7.5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	13	49	ND(<1.0)	NA	65[3]	NA	NA
MW-10-DUP	12/4/2014	ND(<1.0)	ND(<1.0)	44	ND(<1.0)	NA	NA	NA	20	ND(<1.0)	4.5	ND(<5.0)	ND(<1.0)	490	4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	8	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	15	55	ND(<1.0)	NA	72[3]	NA	NA
MW-10	2/24/2015	ND(<1.0)	ND(<1.0)	31	ND(<1.0)	NA	NA	NA	9.3	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	450	1.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	3.5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	5.5	24	ND(<1.0)	NA	39[3]	NA	NA
MW-10	6/23/2015	ND(<20)	ND(<20)	110	ND(<20)	NA	NA	NA	27	ND(<20)	ND(<20)	ND(<100)	ND(<20)	2,500	7.4	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<100)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<100)	ND(<50)	34	120	ND(<20)	NA	140[3]	NA	NA
MW-10	9/1/2015	ND(<5.0)	ND(<5.0)	323	ND(<5.0)	NA	NA	NA	55.1	ND(<5.0)	4.41	ND(<25)	ND(<5.0)	3,580	16.1	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	24.8	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<12.5)	64.4	238	ND(<5.0)	NA	295[3]	NA	NA
MW-10-DUP	9/1/2015	ND(<5.0)	ND(<5.0)	299	ND(<5.0)	NA	NA	NA	52	ND(<5.0)	4.16	ND(<25)	ND(<5.0)	3,380	15.1	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	22.7	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<12.5)	60.3	224	ND(<5.0)	NA	274[3]	NA	NA
MW-10	12/9/2015	ND(<1.0)	ND(<1.0)	35.7	ND(<1.0)	NA	NA	NA	14.1	ND(<1.0)	0.41	ND(<5.0)	ND(<1.0)	354	2.63	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	5.27	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	6.02	26.7	ND(<1.0)	NA	44.9[3]	NA	NA
MW-10	3/2/2016	ND(<1.0)	ND(<1.0)	21.5	ND(<1.0)	NA	NA	NA	13.5	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	17.7	1.52	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.33	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	1.58	15.5	ND(<1.0)	NA	42.6[3]	NA	NA
MW-10-DUP	3/2/2016	ND(<1.0)	ND(<1.0)	16.0	ND(<1.0)	NA	NA	NA	9.84	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	16.2	1.06	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.15	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	1.07	11.4	ND(<1.0)	NA	33.7[3]	NA	NA

TABLE 4
Summary of VOC and TPH Analytical Results in Groundwater
1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)																															TPH-DRO (EPA method 8015)
		cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	Tert-amyl methyl ether	Tert-butyl alcohol	Ethyl tert-butyl ether	Isopropylbenzene	Di-Isopropyl Ether	p-Isopropyltoluene	Methylene Chloride	Methyl tert-butyl ether	Naphthalene	n-Propylbenzene	Styrene	1,1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	TPH-GRO	
Colorado Basic Standards for Groundwater[1]				700	0.45								20[2]	140		100	0.18		5	1,000		70	5	200	5		0.00034			2	10,000	10,000		
MW-11	9/16/2014	ND(<1.0)	ND(<1.0)	0.46	ND(<1.0)	NA	NA	NA	0.52	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	28	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	0.49	1.2	ND(<1.0)	NA	3.2[3]	NA	NA
MW-11	10/10/2014	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	0.66	ND(<1.0)	0.44	ND(<5.0)	ND(<1.0)	13	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	1.3	ND(<1.0)	1.0	ND(<1.0)	NA	4.8[3]	NA	NA
MW-11	10/21/2014	ND(<1.0)	ND(<1.0)	0.67	ND(<1.0)	NA	NA	NA	0.62	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	6.9	ND(<1.0)	0.44	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	1.3	ND(<1.0)	NA	7.3[3]	NA	NA
MW-11	12/3/2014	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	0.52	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	2	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	0.45	ND(<1.0)	NA	4.0 [3]	NA	NA
MW-11	2/24/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	0.38	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	5.2	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	3.6 [3]	NA	NA
MW-11	6/22/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	0.37	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	5.6	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	0.55	ND(<1.0)	NA	4.4 [3]	NA	NA
MW-11	9/1/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	3	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	1.18 [3]	NA	NA
MW-11	12/9/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	0.399	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	2.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	2.07 [3]	NA	NA
MW-11	3/1/2016	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-12	9/16/2014	ND(<10)	ND(<10)	300	ND(<10)	NA	NA	NA	33	ND(<10)	12	ND(<50)	ND(<10)	4,400	8.9	11	ND(<10)	ND(<10)	ND(<10)	110	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<25)	50	150	ND(<10)	NA	520[3]	NA	NA
MW-12	10/10/2014	ND(<25)	ND(<25)	15	ND(<25)	NA	NA	NA	15	ND(<25)	11	ND(<130)	ND(<25)	2,000	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<63)	43	100	ND(<25)	NA	270[3]	NA	NA
MW-12	10/21/2014	ND(<25)	ND(<25)	26	ND(<25)	NA	NA	NA	13	ND(<25)	ND(<25)	ND(<130)	ND(<25)	2,200	ND(<25)	8.8	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<63)	35	100	ND(<25)	NA	310[3]	NA	NA
MW-12	12/4/2014	ND(<1.0)	ND(<1.0)	2.4	ND(<1.0)	NA	NA	NA	1.7	ND(<1.0)	5.6	ND(<5.0)	ND(<1.0)	190	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.8	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	17	32	ND(<1.0)	NA	60[3]	NA	NA
MW-12	2/24/2015	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	NA	NA	NA	ND(<5.0)	ND(<5.0)	4	ND(<25)	ND(<5.0)	160	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<13)	8.1	14	ND(<5.0)	NA	14 [3]	NA	NA
MW-12	6/23/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	0.42	ND(<1.0)	0.45	ND(<5.0)	ND(<1.0)	67	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	3	4.8	ND(<1.0)	NA	7.5[3]	NA	NA
MW-12	9/1/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	0.45	ND(<1.0)	0.35	ND(<5.0)	ND(<1.0)	51.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	3.09	4.85	ND(<1.0)	NA	4.79[3]	NA	NA
MW-12	12/9/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	0.53	ND(<1.0)	0.87	ND(<5.0)	ND(<1.0)	33.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	2.58	4.81	ND(<1.0)	NA	4.75[3]	NA	NA
MW-12	3/2/2016	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	4.73	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	1.74	2.28	ND(<1.0)	NA	2.22[3]	NA	NA
MW-13	9/15/2014	ND(<1.0)	ND(<1.0)	1.5	ND(<1.0)	NA	NA	NA	0.78	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	33	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	0.54	2.8	ND(<1.0)	NA	2.2 [3]	NA	NA
MW-13	12/3/2014	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-13	2/24/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	1.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-13	6/22/2015	ND(<1.0)	ND(<1.0)	0.45	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	3.5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	0.47	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-13	9/1/2015	ND(<1.0)	ND(<1.0)	0.38	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	3.88	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	0.53	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-13	12/9/2015	ND(<1.0)	ND(<1.0)	1.12	ND(<1.0)	NA	NA	NA	0.56	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	7.81	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	1.21	ND(<1.0)	NA	1.66 [3]	NA	NA
MW-13	3/2/2016	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	4.24	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-14	2/24/2015	ND(<1.0)	ND(<1.0)	0.41	ND(<1.0)	NA	NA	NA	0.83	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	110	0.47	0.34	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	0.65	0.4	ND(<1.0)	NA	2.1 [3]	NA	NA
MW-14	6/23/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-14	9/1/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-14	12/9/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	1.16	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	0.51	0.40	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-14	3/1/2016	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-15	2/24/2015	ND(<25)	ND(<25)	9.7	ND(<25)	NA	NA	NA	20	ND(<25)	ND(<25)	ND(<130)	ND(<25)	3,000	10	8.5	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<25)	ND(<130)	ND(<63)	57	140	ND(<1.0)	NA	88[3]	NA	NA
MW-15	6/23/2015	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	NA	NA	NA	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	150	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<13)	12	18	ND(<5.0)	NA	12[3]	NA	NA
MW-15	9/1/2015	ND(<5.0)	ND(<5.0)	6.06	ND(<5.0)	NA	NA	NA	3.07	ND(<5.0)	ND(<5.0)	ND(<25)	2.36	187	2.49	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<25)	ND(<12.5)	11.3	27.1	ND(<5.0)	NA	17.9[3]	NA	NA
MW-15	12/9/2015	ND(<1.0)	ND(<1.0)	1.67	ND(<1.0)	NA	NA	NA	2.26	ND(<1.0)	1.97	ND(<5.0)	ND(<1.0)	159	2.79	0.47	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	3.77	14.1	ND(<1.0)	NA	4.19[3]	NA	NA
MW-15	3/2/2016	ND(<1.0)	ND(<1.0)	0.686	ND(<1.0)	NA	NA	NA	1.37	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	148	2.04	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	1.01	8.40	ND(<1.0)	NA	2.13[3]	NA	NA
MW-16	2/24/2015	ND(<1.0)	ND(<1.0)	4.5	ND(<1.0)	NA	NA	NA	3.2	ND(<1.0)	1.5	ND(<5.0)	ND(<1.0)	330	1.7	0.92	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	7.7	19	ND(<1.0)	NA	4.5[3]	NA	NA
MW-16	6/23/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	38	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	1	1.7	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-16	9/1/2015	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	NA	0.39	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	38.7	0.38	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	1.32	2.54	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-16	12/9/2015	ND(<1.0)	ND(<1.0)	0.707	ND(<1.0)	NA	NA	NA	0.50	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	52.6	0.42	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	1.94	3.64	ND(<1.0)	NA	ND(<3.0)[3]	NA	NA
MW-16	3/2/2016	ND(<1.0)	ND(<1.0)	1.68	ND(<1.0)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<1.0)	29.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2.71	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	1.64	2.74	ND(<1.0)	NA	1.79[3]	NA	NA

TABLE 4

Summary of VOC and TPH Analytical Results in Groundwater

1770 13th Street

Boulder, Colorado

Sample Location	Sample Date	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	Tert-amyl methyl ether	Tert-butyl alcohol	Ethyl tert-butyl ether	Isopropylbenzene	Di-Isopropyl Ether	p-Isopropyltoluene	Methylene Chloride	Methyl tert-butyl ether	Naphthalene	n-Propylbenzene	Styrene	1,1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	TPH-GRO	TPH-DRO (EPA method 8015)
		Analyte (VOCs by 8260B); concentrations are reported in micrograms per liter (ug/L)																																
Colorado Basic Standards for Groundwater[1]				700	0.45								20[2]	140		100	0.18		5	1,000		70	5	200	5		0.00034			2	10,000	10,000		
SPWATER[4]	11/27/2012	ND(<1.0)	ND(<1.0)	1,480	ND(<1.0)	ND(<1.0)	ND(<20)	ND(<10)	69.9	ND(<5.0)	9.75	ND(<5.0)	ND(<5.0)	NA	17	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	2,980	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	65.8	ND(<1.0)	ND(<1.0)	1,150	532	NA	NA
NPWATER[5]	11/28/2012	ND(<1.0)	ND(<1.0)	1,390	ND(<1.0)	ND(<1.0)	23.7	ND(<10)	64.9	ND(<5.0)	10.2	ND(<5.0)	ND(<5.0)	15,800	21.5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	4,040	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	60.4	99	ND(<1.0)	1,310	610	NA	NA
HOLDER[6]	12/6/2012	ND(<10,000)	ND(<10,000)	4,500,000	ND(<10,000)	ND(<10,000)	ND<200,000	NA	480,000	NA	390,000	ND(<50,000)	ND(<50,000)	60,000,000	210,000	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	4,300,000	ND(<10,000)	ND(<10,000)	ND(<10,000)	ND(<10,000)	38,000	ND(<10,000)	ND(<10,000)	490,000	810,000	ND(<10,000)	3,500,000	1,500,000	120,000,000	477,000,000
RH-EX-FLUID-01[7]	3/25/2013	ND(<10)	ND(<10)	1,180	ND(<10)	ND(<10)	ND(<200)	ND(<100)	1,860	ND(<50)	1,020	1,400	ND(<50)	NA	1260	565	76.9	ND(<10)	ND(<10)	997	ND(<10)	ND(<10)	62.9	ND(<10)	ND(<10)	ND(<10)	ND(<10)	1,980	5,760	ND(<10)	6,090	144	NA	NA
RH-EX-FLUID-02[7]	3/25/2013	ND(<10)	ND(<10)	51.8	ND(<10)	ND(<10)	ND(<200)	ND(<100)	ND(<10)	ND(<50)	ND(<10)	154	ND(<50)	NA	ND(<10)	10.2	ND(<10)	ND(<10)	ND(<10)	89.6	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	44.7	ND(<10)	133	112	NA	NA
FluidSample[8]	1/31/2014	ND(<1.0)	ND(<1.0)	560	ND(<1.0)	NA	NA	NA	21	ND(<1.0)	4.8	ND(<5.0)	ND(<1.0)	2,400	8.1	20	ND(<1.0)	ND(<1.0)	ND(<1.0)	1,800	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<5.0)	ND(<2.5)	53	150	ND(<1.0)	NA	1,000[3]	NA	NA
RH-FLUID[9]	2/13/2014	ND(<10)	ND(<10)	940	ND(<10)	NA	NA	NA	45	ND(<10)	17	ND(<50)	ND(<10)	5,200	10	15	ND(<10)	ND(<10)	7.6	1,900	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<50)	ND(<25)	61	170	ND(<10)	NA	1,000[3]	NA	NA
RHFLUID2[9]	2/14/2014	ND(<500)	ND(<500)	4,000	ND(<500)	NA	NA	NA	270	ND(<500)	200	ND(<2,500	ND(<500)	34,000	ND(<500)	380	ND(<500)	ND(<500)	ND(<500)	8,100	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<500)	ND(<2,500)	ND(<1,300)	520	1,200	ND(<500)	NA	4,600[3]	NA	NA
COB_GW1_022514[10]	2/25/2014	ND(<20)	ND(<20)	140	ND(<20)	NA	NA	NA	26	ND(<20)	8.1	ND(<100)	ND(<20)	1,900	19	ND(<20)	ND(<20)	ND(<20)	ND(<20)	24	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<100)	ND(<50)	64	180	ND(<20)	NA	460[3]	NA	NA

Notes:

1 - The Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission, 5CCR 1002-41, The Basic Standards for Groundwater, Amended September 11, 2012, effective January 31, 2013 was utilized to evaluate groundwater quality.

2 - Methyl tert-butyl ether (MTBE) is not listed in the CDPHE groundwater standards, so the Colorado Department of Labor and Employment (CDLE), Division of Oil and Public Safety, Storage Tank Regulations 7 C.C.R. 1101-14, Effective: January 1, 2009, Tier 1 Risk Based Screening Level is listed was utilized to evaluate MTBE in groundwater.

3 - Reported as Total Xylenes.

4 - SPWATER sample was collected from fluid observed in the southern 12-inch process pipe during the 2012 investigation.

5 - NPWATER sample was collected from fluid observed in the northern 12-inch process pipe during the 2012 investigation.

6 - HOLDER sample was collected from the fluid observed in the underground vault structure below the Main Holder foundation during the 2012 investigation.

7 - RH-EX-FLUID-01 and RH-EX-FLUID-02 samples were collected from fluid observed in the March 2013 excavation adjacent to east side of the relief holder.

8 - FluidSample was collected from fluid observed in the reservoir structure located near the oil tanks on the Plaza side of the property during 2014 remediation activities.

9 - RHFLUID and RHFLUID2 samples were collected from fluids observed inside of the former relief holder during 2014 remediation activities.

10 - GW1 - Grab groundwater sample collected from groundwater within the excavation below Oil Tank 1 (west tank) and the Reservoir.

Volatile Organic Compounds (VOCs) analyzed by USEPA Method 8260B.

Cells highlighted in **BLUE** indicate an exceedance of the respective CDPHE or the CDLE groundwater standard.

ND - Not detected at or above the reporting limit.

NA - Not analyzed.

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics.

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics.

TABLE 5

Summary of SVOC Analytical Results in Groundwater

1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (g,h,i) perylene	Benzo (a) pyrene	Benzoic acid	Pyridine	Chrysene	Dibenz (a,h) anthracene	Diethyl phthalate	2,4-Dimethylphenol	2,4-Dinitrotoluene	Fluoranthene	Fluorene	Hexachloroethane	Indeno (1,2,3-cd) pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	Phenanthrene	Phenol	Aniline	Pyrene
		Analyte (SVOCs by 8270D); concentrations are reported in micrograms per liter (ug/L)																											
Colorado Basic Standards for Groundwater[(1)]		420		2,100	0.0048	0.0048	0.0048		0.2			0.0048	0.0048	5,600	140	0.11	280	280	0.88	0.0048	140				140		2,100	6.1	210
MW-1	10/4/2010	ND(<1.0)	ND(<1.0)	ND(<1.3)	ND(<1.0)	ND(<1.5)	ND(<1.5)	ND(<2.0)	ND(<1.0)	ND(<5.0)	NA	ND(<1.0)	ND(<2.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.2)	ND(<1.4)	ND(<1.0)	ND(<2.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)
MW-1	11/30/2012	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	ND(<10)	NA	ND(<10)	NA	NA	NA	NA	ND(<10)	ND(<10)	NA	NA	ND(<10)
MW-1	3/20/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	ND(<1.0)
MW-1	6/13/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	ND(<1.0)
MW-1	9/9/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	ND(<1.0)
MW-1	12/11/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	0.494	ND(<0.5)	NA	NA	ND(<0.2)
MW-1	9/15/2014	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	NA	NA	ND(<0.05)	ND(<0.05)	NA	NA	NA	ND(<0.05)	ND(<0.05)	NA	ND(<0.05)	NA	ND(<0.25)	NA	NA	0.022	ND(<0.05)	NA	NA	ND(<0.05)
MW-1	12/3/2014	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	ND(<1.0)	ND(<1.0)	ND(<3.0)	ND(<10)	NA	ND(<1.0)	ND(<1.0)	ND(<10)	ND(<1.0)	ND(<10)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<10)	NA	ND(<1.0)
MW-1	2/24/2015	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	NA	NA	ND(<0.05)	ND(<0.05)	NA	NA	NA	ND(<0.05)	ND(<0.05)	NA	ND(<0.05)	NA	ND(<0.25)	NA	NA	ND(<0.25)	ND(<0.05)	NA	NA	ND(<0.05)
MW-1	6/22/2015	ND(<0.05)	ND(<0.05)	ND(<0.05)	0.0096	0.0043	ND(<0.05)	ND(<0.05)	ND(<0.05)	NA	NA	ND(<0.05)	ND(<0.05)	NA	NA	NA	ND(<0.05)	ND(<0.05)	NA	ND(<0.05)	NA	0.014	NA	NA	ND(<0.25)	0.013	NA	NA	ND(<0.05)
MW-1	9/1/2015	ND(<0.05)	ND(<0.05)	ND(<0.05)	0.0134	0.00669	ND(<0.05)	0.00546	ND(<0.05)	NA	NA	ND(<0.05)	ND(<0.05)	NA	NA	NA	ND(<0.05)	ND(<0.05)	NA	ND(<0.05)	NA	ND(<0.25)	NA	NA	ND(<0.25)	0.0175	NA	NA	0.0161
MW-1	12/9/2015	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	NA	NA	ND(<0.05)	ND(<0.05)	NA	NA	NA	ND(<0.05)	ND(<0.05)	NA	ND(<0.05)	NA	ND(<0.25)	NA	NA	0.0584	ND(<0.05)	NA	NA	ND(<0.05)
MW-1	3/1/2016	ND(<0.05)	ND(<0.05)	ND(<0.05)	0.0063	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	NA	NA	ND(<0.05)	ND(<0.05)	NA	NA	NA	ND(<0.05)	ND(<0.05)	NA	ND(<0.05)	NA	0.041	NA	NA	0.137	ND(<0.05)	NA	NA	ND(<0.05)
MW-2	10/4/2010	ND(<1.0)	ND(<1.0)	ND(<1.3)	ND(<1.0)	ND(<1.5)	ND(<1.5)	ND(<2.0)	ND(<1.0)	ND(<5.0)	NA	ND(<1.0)	ND(<2.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.2)	ND(<1.4)	ND(<1.0)	ND(<2.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	ND(<2.0)	ND(<1.0)	ND(<5.0)	ND(<5.0)	NA	ND(<1.0)
MW-2	11/30/2012	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	ND(<10)	NA	ND(<10)	NA	NA	NA	NA	ND(<10)	ND(<10)	NA	NA	ND(<10)
MW-2	3/20/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	ND(<1.0)
MW-2	6/13/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	1.13	ND(<0.5)	NA	NA	ND(<1.0)
MW-2	9/9/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	0.368
MW-2	12/11/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	0.37	ND(<0.5)	NA	NA	ND(<0.2)
MW-2	9/15/2014	0.11	0.27	0.042	0.072	0.089	0.030	0.074	0.11	NA	NA	0.060	0.005	NA	NA	NA	0.076	0.056	NA	0.052	NA	0.013	NA	NA	0.60	0.033	NA	NA	0.40
MW-2	12/3/2014	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	1	NA	NA	ND(<1.0)	ND(<1.0)	ND(<3.0)	ND(<10)	NA	1	ND(<1.0)	ND(<10)	ND(<1.0)	ND(<10)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<10)	NA	0.68
MW-2	2/24/2015	ND(<0.05)	0.032	0.017	0.039	0.038	0.014	0.034	0.048	NA	NA	0.023	0.056	NA	NA	NA	0.037	ND(<0.05)	NA	0.022	NA	ND(<0.25)	NA	NA	0.044	ND(<0.05)	NA	NA	0.45
MW-2	6/22/2015	0.73	0.16	0.021	0.031	0.025	0.014	0.023	0.033	NA	NA	0.018	ND(<0.05)	NA	NA	NA	0.028	0.016	NA	0.018	NA	0.082	NA	NA	6.9	0.018	NA	NA	0.28
MW-2	9/1/2015	0.3	0.14	0.0338	0.0721	0.0768	0.0266	0.0754	0.104	NA	NA	0.0498	ND(<0.05)	NA	NA	NA	0.074	0.0178	NA	0.0529	NA	0.0174	NA	NA	0.519	0.0214	NA	NA	0.363
MW-2	12/9/2015	ND(<0.05)	ND(<0.05)	ND(<0.05)	0.04	0.052	0.0145	0.0391	0.0589	NA	NA	0.0291	ND(<0.05)	NA	NA	NA	0.036	ND(<0.05)	NA	0.0278	NA	ND(<0.25)	NA	NA	0.0803	ND(<0.05)	NA	NA	0.304
MW-2	3/1/2016	0.0101	ND(<0.05)	0.0172	0.0479	0.0505	0.0179	0.0378	0.0631	NA	NA	0.0346	0.0088	NA	NA	NA	0.0475	ND(<0.05)	NA	0.0281	NA	0.0391	NA	NA	0.153	0.0131	NA	NA	0.416
MW-3	10/4/2010	115	170	ND(<13)	ND(<10)	ND(<15)	ND(<15)	ND(<20)	ND(<10)	ND(<50)	NA	ND(<10)	ND(<20)	ND(<50)	ND(<10)	ND(<10)	ND(<12)	50.2	ND(<10)	ND(<20)	ND(<10)	568	ND(<50)	ND(<20)	1,880	60.3	ND(<50)	NA	ND(<10)
MW-3	12/3/2012	153	32.8	14.4	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	57.7	NA	ND(<10)	NA	NA	NA	NA	371	71.5	NA	NA	ND(<10)
MW-3-DUP	12/3/2012	162	33.8	14.6	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	46.3	NA	ND(<10)	NA	NA	NA	NA	341	72.3	NA	NA	ND(<10)
MW-3	3/20/2013	157	31.4	15.5	0.550	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	0.437	ND(<0.2)	NA	NA	NA	3.51	40.4	NA	ND(<0.3)	NA	NA	NA	NA	182	58.1	NA	NA	5.45
MW-3	6/13/2013	160	38.3	42	0.385	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	0.367	ND(<0.2)	NA	NA	NA	3.94	45.0	NA	ND(<0.3)	NA	NA	NA	NA	366	47.9	NA	NA	5.84
MW-3	9/9/2013	173	37.7	15.2	1.280	0.466	ND(<0.2)	ND(<0.2)	0.503	NA	NA	1.11	ND(<0.2)	NA	NA	NA	5.94	45.6	NA	ND(<0.3)	NA	NA	NA	NA	239	67.7	NA	NA	8.09
MW-3	12/11/2013	86.1	20.4	7.06	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	2.2	21.8	NA	ND(<0.3)	NA	NA	NA	NA	980	30.7	NA	NA	2.55
MW-3-DUP	12/11/2013	186	34.3	11.0	0.335	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	0.310	ND(<0.2)	NA	NA	NA	3.61	36.4	NA	ND(<0.3)	NA	NA	NA	NA	1,900	50.5	NA	NA	4.53
MW-3R	9/16/2014	440	78	22	5.6	2.6	ND(<5.0)	1.2	3.3	NA	NA	4.2	ND(<5.0)	NA	NA	NA	9.3	110	NA	ND(<5.0)	NA	1,500	NA	NA	7,700	110	NA	NA	17
MW-3R	10/10/2014	240	52	23	7.8	4.4	1.2	1.7	5.3	NA	NA	7.0	0.29	NA	NA	NA	14	80	NA	1.4	NA	1,100	NA	NA	4,800	100	NA	NA	19
MW-3R	10/21/2014	400	55	15	1.6	0.68	0.25	0.28	0.89	NA	NA	1.3	ND(<0.05)	NA	NA	NA	5.7	75	NA	0.27	NA	1,400	NA	NA	5,600	70	NA	NA	7.3
MW-3R	12/4/2014	240	58	38	22.0	11	ND(<10)	4.7	13	NA	NA	19	ND(<10)	ND(<30)	ND(<100)	NA	34	86	ND(<10)	4.2	ND(<100)	NA	NA	NA	1,900	160	ND(<100)	NA	48
MW-3R	2/25/2015	410	95	31	1.9	0.74	ND(<1.0)	ND(<1.0)	0.86	NA	NA	1.6	ND(<1.0)	NA	NA	NA	6.6	100	NA	ND(<1.0)	NA	1,200	NA	NA	4,600	93	NA	NA	8.9
MW-3R	6/23/2015	310	87	17	1.4	0.61	0.2	0.27	0.81	NA	NA	1.2	0.039	NA	NA	NA	5.5	77	NA	0.24	NA	500	NA	NA	1,900	87	NA	NA	8.2
MW-3R	9/1/2015	358	117	31.6	3.74	1.68	0.505	0.78	2.07	NA	NA	3.25	ND(<1.0)	NA	NA	NA	11.6	146	NA	0.996	NA	554	NA	NA	1,770	115	NA	NA	13.5
MW-3R	12/9/2015	227	74.6	13.7	1.47	0.661	0.196	0.263	0.862	NA	NA	1.26	0.11	NA	NA	NA	4.95	68	NA	0.223	NA	254	NA	NA	1,160	78.9	NA	NA	6.72
MW-3R	3/2/2016	391	63.2	16.0	2.42	1.21	0.298	0.438	1.47	NA	NA	1.90	0.197	NA	NA	NA	6.37	65.3	NA	0.412	NA	524	NA	NA	2,790	81.2	NA	NA	9.42
MW-4	10/4/2010	2.0	4.2	1.8	ND(<1.0)	ND(<1.5)	ND(<1.5)	ND(<2.0)	ND(<1.0)	ND(<5.0)	NA	ND(<1.0)	ND(<2.0)	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.2)	3.8	ND(<1.0)	ND(<2.0)	ND(<1.0)	10.2	ND(<5.0)	ND(<2.0)	7.5	5.4	ND(<5.0)	NA	1.1
MW-4	11/30/2012	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	ND(<10)	NA	ND(<10)	NA	NA	NA	NA	ND(<10)	ND(<10)	NA	NA	ND(<10)
MW-4	3/20/2013	ND(<0.5)	0.470	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	ND(<1.0)
MW-4	6/13/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	ND(<1.0)
MW-4	9/9/2013	ND(<0.5)	1.47	ND(<0.2)	ND(<0.1)	0.248	ND(<0.2)	0.559	0.388	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	0.245	ND(<0.2)	NA	0.514	NA	NA	NA	NA	ND(<0.2)	ND(<0.5)	NA	NA	0.437
MW-4	12/11/2013	ND(<0.5)	ND(<0.2)	ND(<0.2)	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	0.714	ND(<0.5)	NA	NA	ND(<0.2)
MW-4	9/16/2014	ND(<0.05)	ND(<0.05)	0.022	ND(<0.05)	0.018	ND(<0.05)	0.067	0.033	NA	NA	ND(<0.05)	ND(<0.05)	NA	NA	NA	0.018	0.02	NA	0.042	NA	0.036	NA	NA	0.11	0.013	NA	NA	0.032
MW-4	12/3/2014	ND(<1.0)	1.4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	0.52	ND(<1.0)	NA	NA	ND(<1.0)	ND(<1.0)	0.48	ND(<10)	NA	ND(<1.0)	ND(<1.0)	ND(<10)	0.3	ND(<10)	NA	NA	NA	ND(<1.0)	ND(<1.0)	ND(<10)	NA	ND(<1.0)
MW-4	2/24/2015	0.012	ND(<0.05)	0.012	ND(<0.05)	ND(<0.05)	ND(<0.05)	0.026	0.013	NA	NA	ND(<0.05)	ND(<0.05)	NA	NA	NA	ND(<0.05)	ND(<0.05)	NA	0.02	NA	0.031	NA	NA	0.098	0.01	NA	NA	0.024
MW-4	6/22/2015	0.11	0.043	0.02	0.015	0.012	ND(<0.05)	0.042	0.019	NA	NA	ND(<0.05)	ND(<0.05)	NA	NA	NA	0.018	0.052	NA	0.03	NA	0.16	NA	NA	0.62	0.047	NA	NA	0.026
MW-4	9/1/2015	0.115	0.0361	0.0164	0.0121	0.00689	ND(<0.05)	0.0206	ND(<0.05)	NA	NA	ND(<0.05)	ND(<0.05)	NA	NA	NA	ND(<0.05)	0.0438	NA	ND(<0.05)	NA	0.142	NA	NA	0.442	0.0481	NA	NA	0.0206
MW-4	12/9/2015	0.158	0.0549	0.022	ND(<0.05)	0.00622	ND(<0.05)	0.0229	ND(<0.05)	NA	NA	ND(<0.05)	ND(<0.05)	NA	NA	NA	ND(<0.05)	0.0605	NA	ND(<0.05)	NA	0.183	NA	NA	0.902	0.0573	NA	NA	0.0195
MW-4	3/1/2016	0.0976	0.0282	0.0162	ND(<0.05)	0.00624	ND(<0.05)	0.0159	ND(<0.05)	NA	NA	ND(<0.05)	ND(<0.05)	NA	NA	NA	ND(<0.05)	0.0193	NA	ND(<0.05)	NA	0.133	NA	NA	0.654	0.0397	NA	NA	0.0209

TABLE 5

Summary of SVOC Analytical Results in Groundwater

1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Analyte (SVOCs by 8270D); concentrations are reported in micrograms per liter (ug/L)																											
		Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (g,h,i) perylene	Benzo (a) pyrene	Benzoic acid	Pyridine	Chrysene	Dibenz (a,h) anthracene	Diethyl phthalate	2,4-Dimethylphenol	2,4-Dinitrotoluene	Fluoranthene	Fluorene	Hexachloroethane	Indeno (1,2,3-cd) pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	Phenanthrene	Phenol	Aniline	Pyrene
Colorado Basic Standards for Groundwater[(1)]		420		2,100	0.0048	0.0048	0.0048		0.2			0.0048	0.0048	5,600	140	0.11	280	280	0.88	0.0048	140				140		2,100	6.1	210
MW-5	10/4/2010	63.9	168	ND(<13)	ND(<10)	ND(<15)	ND(<15)	ND(<20)	ND(<10)	ND(<50)	NA	ND(<10)	ND(<20)	ND(<50)	ND(<10)	ND(<10)	ND(<12)	39.7	ND(<10)	ND(<20)	ND(<10)	482	ND(<50)	ND(<20)	2,050	61.3	ND(<50)	NA	ND(<10)
MW-5	12/3/2012	51	102	17.9	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	12.0	46.7	NA	ND(<10)	NA	NA	NA	NA	545	86.2	NA	NA	16.4
MW-5	3/20/2013	33.2	70.3	13.8	3.9	0.451	0.59	0.354	1.19	NA	NA	2.61	ND(<0.2)	NA	NA	NA	9.18	32.7	NA	0.316	NA	NA	NA	NA	254	65.4	NA	NA	15.4
MW-5-DUP	3/20/2013	284	62.1	12.1	1.57	ND(<0.2)	0.219	ND(<0.2)	0.418	NA	NA	1.11	ND(<0.2)	NA	NA	NA	5.94	27.8	NA	ND(<0.3)	NA	NA	NA	NA	221	50.3	NA	NA	ND(<10.0)
MW-5	6/13/2013	34	15	4.06	0.688	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	0.648	ND(<0.2)	NA	NA	NA	3.84	9.70	NA	ND(<0.3)	NA	NA	NA	NA	23.8	15.3	NA	NA	8.03
MW-5	9/9/2013	14.1	13.5	19.1	14.9	8.21	2.49	2.21	9.43	NA	NA	13.6	0.721	NA	NA	NA	28.4	15.40	NA	2.7	NA	NA	NA	NA	6.74	71.7	NA	NA	47.3
MW-5	12/11/2013	24.6	42.0	12.4	1.91	0.837	ND(<0.2)	ND(<0.2)	0.966	NA	NA	1.63	ND(<0.2)	NA	NA	NA	7.3	23.7	NA	0.311	NA	NA	NA	NA	43.1	51.4	NA	NA	9.98
MW-5	9/15/2014	13	8.2	9.2	8.2	5.9	1.6	3.9	8.4	NA	NA	7.9	0.29	NA	NA	NA	15	6.8	NA	3	NA	2.4	NA	NA	1.3	28	NA	NA	29
MW-5	10/10/2014	8.0	12	4	2.9	2.2	0.58	1.3	3	NA	NA	2.8	0.11	NA	NA	NA	5.6	3.4	NA	0.97	NA	0.65	NA	NA	0.81	11	NA	NA	11
MW-5	12/3/2014	5.3	11	2.7	1.4	0.78	ND(<1.0)	0.46	0.8	NA	NA	0.87	ND(<1.0)	ND(<3.0)	ND(<10)	NA	2.7	3.4	ND(<10)	0.34	ND(<10)	NA	NA	NA	0.73	9.3	ND(<10)	NA	4.8
MW-5	2/24/2015	16	26	8.3	3	1.8	0.43	0.89	2.4	NA	NA	2.7	0.23	NA	NA	NA	7.5	13	NA	0.74	NA	4.3	NA	NA	1.9	34	NA	NA	14
MW-5-DUP	2/24/2015	14	26	6.9	1.8	1.1	0.32	0.49	1.2	NA	NA	1.7	0.13	NA	NA	NA	5.5	11	NA	0.40	NA	2.7	NA	NA	1.5	28	NA	NA	10
MW-5	6/22/2015	5.4	4.3	2	1.1	1.1	0.33	0.86	1.7	NA	NA	0.83	0.072	NA	NA	NA	2	1.8	NA	0.71	NA	0.22	NA	NA	0.32	4.9	NA	NA	5.4
MW-5	9/1/2015	9.53	10.4	2.64	0.643	0.579	0.152	0.522	0.836	NA	NA	0.496	ND(<0.05)	NA	NA	NA	1.98	2.12	NA	0.407	NA	0.19	NA	NA	0.534	7.51	NA	NA	4.21
MW-5	12/9/2015	6.44	12.5	3.55	1.5	1.1	0.279	0.631	1.50	NA	NA	1.08	0.17	NA	NA	NA	3.07	4.48	NA	0.502	NA	0.177	NA	NA	0.649	10.8	NA	NA	6.23
MW-5	3/1/2016	17.7	33.7	10.8	3.21	1.51	0.623	0.692	2.23	NA	NA	2.50	ND(<0.05)	NA	NA	NA	8.54	18.6	NA	0.591	NA	6.32	NA	NA	4.12	44.3	NA	NA	15.6
MW-6	10/4/2010	48.9	67.4	ND(<13)	ND(<10)	ND(<15)	ND(<15)	ND(<20)	ND(<10)	ND(<50)	NA	ND(<10)	ND(<20)	ND(<50)	ND(<10)	ND(<10)	ND(<12)	28.6	ND(<10)	ND(<20)	ND(<10)	114	ND(<50)	ND(<20)	371	47.4	ND(<50)	NA	ND(<10)
MW-6	11/30/2012	52	63.8	12.1	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	42.7	NA	ND(<10)	NA	NA	NA	NA	184	63.8	NA	NA	ND(<10)
MW-6	3/20/2013	58.7	77.7	12.2	1.40	0.219	0.286	0.284	0.45	NA	NA	1.04	ND(<0.2)	NA	NA	NA	6.04	40.8	NA	ND(<0.3)	NA	NA	NA	NA	324	68.7	NA	NA	ND(<10)
MW-6	6/13/2013	49.2	59.4	13.1	0.724	0.276	0.247	ND(<0.2)	0.404	NA	NA	0.724	ND(<0.2)	NA	NA	NA	6.4	39.3	NA	ND(<0.3)	NA	NA	NA	NA	185	67	NA	NA	10.1
MW-6-DUP	6/13/2013	52	69.2	18.9	0.931	0.668	0.465	ND(<0.2)	0.621	NA	NA	0.922	ND(<0.2)	NA	NA	NA	7.19	42	NA	ND(<0.3)	NA	NA	NA	NA	373	71.3	NA	NA	10.8
MW-6	9/9/2013	74.3	79.2	33.8	9.78	7.6	2.13	2.86	7.72	NA	NA	8.86	0.746	NA	NA	NA	36	69.5	NA	3.18	NA	NA	NA	NA	622	216	NA	NA	41.8
MW-6	12/11/2013	56.7	52.3	13.1	0.405	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	0.411	ND(<0.2)	NA	NA	NA	5.58	36.4	NA	ND(<0.3)	NA	NA	NA	NA	784	69	NA	NA	7.36
MW-6	9/15/2014	62	57	20	3.2	1.8	0.69	1.2	2.6	NA	NA	2.9	0.086	NA	NA	NA	15	51.0	NA	0.94	NA	9.3	NA	NA	73	94.0	NA	NA	20
MW-6	12/4/2014	60	50	17	3.2	2	ND(<1.0)	1.1	2.1	NA	NA	2.6	ND(<1.0)	ND(<3.0)	ND(<10)	NA	13	41	ND(<1.0)	0.78	ND(<10)	NA	NA	NA	140	84	ND(<10)	NA	18
MW-6	2/24/2015	81	61	18	0.8	0.22	0.064	0.11	0.29	NA	NA	0.7	ND(<0.05)	NA	NA	NA	9.7	53	NA	0.088	NA	20	NA	NA	270	100	NA	NA	14
MW-6	6/22/2015	69	71	13	0.97	0.64	0.18	0.54	0.85	NA	NA	0.99	0.033	NA	NA	NA	7.1	38	NA	0.4	NA	54	NA	NA	320	72	NA	NA	11
MW-6	9/1/2015	63.1	39.5	17.9	1.44	0.928	0.236	0.753	1.18	NA	NA	1.36	ND(<0.05)	NA	NA	NA	10.1	45.3	NA	0.557	NA	1.86	NA	NA	16.6	98.9	NA	NA	12.3
MW-6	12/9/2015	58.4	38.1	13.6	0.93	0.37	0.107	0.171	0.495	NA	NA	0.77	0.0424	NA	NA	NA	7.41	39.8	NA	0.138	NA	4.23	NA	NA	84.4	81.8	NA	NA	10.7
MW-6	3/2/2016	53.4	32.2	16.1	1.53	0.765	0.190	0.379	0.967	NA	NA	1.21	ND(<0.05)	NA	NA	NA	9.27	36.8	NA	0.301	NA	2.61	NA	NA	51.9	75.0	NA	NA	14.1
MW-7	12/3/2012	80.3	16.1	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	NA	ND(<10)	ND(<10)	NA	NA	NA	ND(<10)	26.6	NA	ND(<10)	NA	NA	NA	NA	79.7	25	NA	NA	ND(<10)
MW-7	3/20/2013	109	23.6	8.63	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	2.37	9.45	NA	ND(<0.3)	NA	NA	NA	NA	84.5	35.6	NA	NA	3.53
MW-7	6/13/2013	132	24.7	11.3	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	2.82	27.3	NA	ND(<0.3)	NA	NA	NA	NA	78.8	35.3	NA	NA	4.5
MW-7	9/9/2013	144	27.3	12.2	0.138	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	3.42	33.2	NA	ND(<0.3)	NA	NA	NA	NA	21.7	48.9	NA	NA	4.22
MW-7	12/11/2013	131	24.6	10	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	3.62	26.3	NA	ND(<0.3)	NA	NA	NA	NA	132	42	NA	NA	4.14
MW-7	9/15/2014	190	63	11	0.25	0.12	0.038	0.095	0.12	NA	NA	0.21	0.006	NA	NA	NA	3.7	26	NA	0.067	NA	8.2	NA	NA	590	47	NA	NA	4.5
MW-7	12/4/2014	110	45	8.1	0.34	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	ND(<1.0)	ND(<1.0)	ND(<3.0)	ND(<10)	NA	2.8	25	ND(<1.0)	ND(<1.0)	ND(<10)	NA	NA	NA	160	35	3.2	NA	3.7
MW-7	2/24/2015	150	61	11	0.091	ND(<0.05)	ND(<0.05)	0.012	0.017	NA	NA	0.07	ND(<0.05)	NA	NA	NA	3.2	34	NA	ND(<0.05)	NA	2.7	NA	NA	230	52	NA	NA	4.1
MW-7	6/23/2015	120	47	9.4	0.12	0.054	0.021	0.046	0.055	NA	NA	0.099	ND(<0.05)	NA	NA	NA	2.8	24	NA	0.032	NA	10	NA	NA	290	41	NA	NA	3.8
MW-7	9/1/2015	132	52.5	13.5	0.14	0.0157	ND(<0.05)	0.0124	0.0164	NA	NA	0.104	ND(<0.05)	NA	NA	NA	4.39	25.4	NA	ND(<0.05)	NA	3.29	NA	NA	246	57.8	NA	NA	5.16
MW-7	12/9/2015	136	39.5	8.5	0.132	0.0207	ND(<0.05)	0.0136	0.0243	NA	NA	0.0999	0.00504	NA	NA	NA	2.64	26	NA	ND(<0.05)	NA	0.953	NA	NA	48	40.8	NA	NA	3.61
MW-7-DUP	12/9/2015	128	42.1	9.1	0.140	0.0247	ND(<0.05)	0.0165	0.0293	NA	NA	0.0998	0.00479	NA	NA	NA	2.87	26.9	NA	ND(<0.05)	NA	1.13	NA	NA	68.7	44.1	NA	NA	3.92
MW-7	3/2/2016	132	47.9	10.2	0.136	0.0204	ND(<0.05)	0.0115	0.0217	NA	NA	0.0953	ND(<0.05)	NA	NA	NA	3.19	30.2	NA	ND(<0.05)	NA	1.86	NA	NA	147	47.4	NA	NA	4.53
MW-8	12/3/2012	444	92.8	91	52.7	28.6	38.6	14.4	71.9	NA	NA	49.7	ND(<10)	NA	NA	NA	105	207	NA	12.2	NA	NA	NA	NA	3,950	494	NA	NA	154
MW-8	3/20/2013	214	ND(<2.0)	24.3	8.34	2.4	2.11	1.64	4.52	NA	NA	6.75	0.665	NA	NA	NA	17	89.2	NA	1.49	NA	NA	NA	NA	211,000	143	NA	NA	29.5
MW-8	6/13/2013	243	83.4	40.1	13.5	4.24	5.81	1.29	9.54	NA	NA	15.3	0.457	NA	NA	NA	31.8	143	NA	1.71	NA	NA	NA	NA	3,310	148	NA	NA	58.6
MW-8	9/9/2013	201	72.1	21.0	5.2	3.58	1.23	1.29	4.21	NA	NA	4.22	0.377	NA	NA	NA	14.5	74.4	NA	1.43	NA	NA	NA	NA	4,570	106	NA	NA	19.2
MW-8	12/11/2013	199	60.8	14.6	2.5	1.51	0.528	0.669	1.82	NA	NA	2.16	ND(<0.2)	NA	NA	NA	6.91	52.6	NA	0.733	NA	NA	NA	NA	4,880	70.6	NA	NA	9.05

TABLE 5

Summary of SVOC Analytical Results in Groundwater

1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Analyte (SVOCs by 8270D); concentrations are reported in micrograms per liter (ug/L)																											
		Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (g,h,i) perylene	Benzo (a) pyrene	Benzoic acid	Pyridine	Chrysene	Dibenz (a,h) anthracene	Diethyl phthalate	2,4-Dimethylphenol	2,4-Dinitrotoluene	Fluoranthene	Fluorene	Hexachloroethane	Indeno (1,2,3-cd) pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	Phenanthrene	Phenol	Aniline	Pyrene
Colorado Basic Standards for Groundwater[(1)]		420		2,100	0.0048	0.0048	0.0048		0.2			0.0048	0.0048	5,600	140	0.11	280	280	0.88	0.0048	140				140		2,100	6.1	210
MW-8R	9/16/2014	ND(<0.05)	ND(<0.05)	ND(<0.05)	0.025	0.018	ND(<0.05)	ND(<0.05)	0.023	NA	NA	0.018	ND(<0.05)	NA	NA	NA	0.019	ND(<0.05)	NA	ND(<0.05)	NA	NA	NA	NA	0.066	0.010	NA	NA	0.31
MW-8R	10/10/2014	7.8	0.46	0.088	0.064	0.035	0.016	0.018	0.045	NA	NA	0.067	ND(<0.05)	NA	NA	NA	0.23	0.46	NA	ND(<0.05)	NA	NA	NA	NA	0.13	0.027	NA	NA	0.4
MW-8R	10/21/2014	11	1.3	0.29	0.082	0.037	ND(<0.05)	0.02	0.045	NA	NA	0.067	ND(<0.05)	NA	NA	NA	0.26	1.4	NA	0.015	NA	NA	NA	NA	2	0.21	NA	NA	0.38
MW-8R	12/4/2014	24	3	0.36	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	ND(<1.0)	ND(<1.0)	ND(<3.0)	ND(<10)	NA	ND(<1.0)	1	ND(<10)	ND(<1.0)	ND(<10)	NA	NA	NA	23	0.38	ND(<10)	NA	ND(<1.0)
MW-8R	2/24/2015	13	1.3	0.35	0.044	ND(<0.05)	ND(<0.05)	ND(<0.05)	0.016	NA	NA	0.03	ND(<0.05)	NA	NA	NA	0.16	0.64	NA	ND(<0.05)	NA	26	NA	NA	67	1.2	NA	NA	0.22
MW-8R	6/23/2015	2.6	0.21	0.055	0.024	0.012	ND(<0.05)	0.0055	ND(<0.05)	NA	NA	0.017	ND(<0.05)	NA	NA	NA	0.069	0.11	NA	ND(<0.05)	NA	0.091	NA	NA	0.49	0.038	NA	NA	0.11
MW-8R-DUP	6/23/2015	2.7	0.24	0.058	0.034	0.021	ND(<0.05)	0.013	0.025	NA	NA	0.026	ND(<0.05)	NA	NA	NA	0.068	0.12	NA	ND(<0.05)	NA	0.21	NA	NA	0.98	0.028	NA	NA	0.1
MW-8R	9/1/2015	7.01	0.594	0.166	0.021	0.00576	ND(<0.05)	0.00372	ND(<0.05)	NA	NA	0.0162	ND(<0.05)	NA	NA	NA	0.114	0.349	NA	ND(<0.05)	NA	0.0667	NA	NA	0.194	0.0441	NA	NA	0.124
MW-8R	12/9/2015	4.96	0.507	0.138	0.068	0.0358	0.0409	0.0113	0.0324	NA	NA	0.0566	ND(<0.05)	NA	NA	NA	0.268	0.357	NA	ND(<0.05)	NA	0.131	NA	NA	0.594	0.446	NA	NA	0.318
MW-8R	3/2/2016	8.32	0.962	0.235	0.0212	0.0057	ND(<0.05)	0.0037	ND(<0.05)	NA	NA	0.0113	ND(<0.05)	NA	NA	NA	0.0941	0.768	NA	ND(<0.05)	NA	0.0509	NA	NA	1.78	0.629	NA	NA	0.140
MW-9	4/11/2013	36.8	37.8	75.4	74.4	30.7	41.9	12.3	52.2	NA	NA	70.3	2.84	NA	NA	NA	152	36.7	NA	12.8	NA	NA	NA	NA	158	222	NA	NA	298
MW-9	6/13/2013	20.7	28.3	33.8	20.7	6.16	5.95	1.17	9.56	NA	NA	19.7	0.408	NA	NA	NA	41.7	21.3	NA	1.77	NA	NA	NA	NA	77.2	99.1	NA	NA	79.7
MW-9	9/9/2013	10.3	8.96	10.7	2.86	1.41	0.465	0.502	1.78	NA	NA	2.33	ND(<0.2)	NA	NA	NA	7.8	7.65	NA	0.566	NA	NA	NA	NA	21.5	33.3	NA	NA	12.3
MW-9	12/11/2013	1.76	2.18	1.81	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	1.03	0.985	NA	ND(<0.3)	NA	NA	NA	NA	2.36	5.66	NA	NA	1.23
MW-10	6/13/2013	7.30	3.19	0.331	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	ND(<0.2)	0.584	NA	ND(<0.3)	NA	NA	NA	NA	96.6	1.62	NA	NA	ND(<1.0)
MW-10	9/9/2013	166	59	10.9	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	2.7	16.8	NA	ND(<0.3)	NA	NA	NA	NA	846	53.5	NA	NA	3.09
MW-10	12/11/2013	102	22.4	9.51	ND(<0.1)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	NA	NA	ND(<0.2)	ND(<0.2)	NA	NA	NA	2.52	ND(<0.2)	NA	ND(<0.3)	NA	NA	NA	NA	55.1	38.1	NA	NA	3.67
MW-10	9/15/2014	38	12	3.4	0.088	0.07	ND(<0.1)	0.081	0.070	NA	NA	0.058	0.009	NA	NA	NA	1.7	7.9	NA	0.056	NA	NA	NA	NA	130	8.4	NA	NA	2.4
MW-10-DUP	9/15/2014	36	11	3.3	0.089	0.074	0.028	0.091	0.078	NA	NA	0.058	ND(<0.1)	NA	NA	NA	1.7	7.7	NA	0.060	NA	NA	NA	NA	170	9.3	NA	NA	2.4
MW-10	12/4/2014	150	60	9.9	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	ND(<1.0)	ND(<1.0)	ND(<3.0)	ND(<10)	NA	3	9.9	ND(<10)	ND(<1.0)	ND(<10)	NA	NA	NA	310	49	ND(<10)	NA	4.1
MW-10-DUP	12/4/2014	140	58	9.6	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	ND(<1.0)	ND(<1.0)	ND(<3.0)	ND(<10)	NA	3	9.7	ND(<10)	ND(<1.0)	ND(<10)	NA	NA	NA	350	48	ND(<10)	NA	4.1
MW-10	2/24/2015	170	55	12	0.13	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	NA	NA	0.095	ND(<0.05)	NA	NA	NA	3.7	8.7	NA	ND(<0.05)	NA	26	NA	NA	380	58	NA	NA	5.4
MW-10	6/23/2015	180	69	12	0.082	0.013	ND(<0.05)	0.0099	ND(<0.05)	NA	NA	0.049	ND(<0.05)	NA	NA	NA	3.5	20	NA	ND(<0.05)	NA	270	NA	NA	1,800	64	NA	NA	4.5
MW-10	9/1/2015	294	122	20.9	0.0538	0.0039	ND(<0.05)	0.00441	ND(<0.05)	NA	NA	0.0334	ND(<0.05)	NA	NA	NA	4.44	48.3	NA	ND(<0.05)	NA	467	NA	NA	4,270	89.1	NA	NA	4.37
MW-10-DUP	9/1/2015	504	213	16.7	0.0567	0.00264	ND(<0.05)	ND(<0.05)	ND(<0.05)	NA	NA	0.0333	ND(<0.05)	NA	NA	NA	4.14	82.8	NA	ND(<0.05)	NA	833	NA	NA	6,150	98.1	NA	NA	4.17
MW-10	12/9/2015	135	31.5	8.87	0.102	ND(<0.05)	ND(<0.05)	0.00365	ND(<0.05)	NA	NA	0.0598	ND(<0.05)	NA	NA	NA	2.96	ND(<0.05)	NA	0.0148	NA	8.60	NA	NA	67.4	38.2	NA	NA	4.31
MW-10	3/2/2016	112	31.1	8.31	0.128	0.00735	ND(<0.05)	0.00491	ND(<0.05)	NA	NA	0.0815	ND(<0.05)	NA	NA	NA	2.74	2.65	NA	ND(<0.05)	NA	0.172	NA	NA	9.60	38.8	NA	NA	4.34
MW-10-DUP	3/2/2016	117	34.1	9.07	0.150	0.00983	ND(<0.05)	0.00703	ND(<0.05)	NA	NA	0.0906	ND(<0.05)	NA	NA	NA	3.00	3.04	NA	ND(<0.05)	NA	0.189	NA	NA	10.6	41.5	NA	NA	4.91
MW-11	9/16/2014	11	27	15	0.87	0.31	0.11	0.16	0.45	NA	NA	0.83	0.018	NA	NA	NA	7.5	10	NA	0.13	NA	NA	NA	NA	6.1	36	NA	NA	9.8
MW-11	10/10/2014	7.5	13	3.9	1.6	0.59	0.15	0.22	0.78	NA	NA	1.3	0.024	NA	NA	NA	8	3	NA	0.17	NA	NA	NA	NA	0.91	3.9	NA	NA	12
MW-11	10/21/2014	6.6	12	14	0.97	0.34	0.12	0.15	0.47	NA	NA	0.79	0.042	NA	NA	NA	6.5	ND(<0.05)	NA	0.12	NA	NA	NA	NA	1.9	34	NA	NA	9.6
MW-11	12/3/2014	3.2	4.8	6.6	0.51	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	ND(<1.0)	ND(<1.0)	ND(<3.0)	ND(<10)	NA	3.2	1.4	ND(<10)	ND(<1.0)	ND(<10)	NA	NA	NA	0.4	8	ND(<10)	NA	4.4
MW-11	2/24/2015	3.7	5.4	6.7	0.56	0.16	0.042	0.058	0.2	NA	NA	0.48	0.019	NA	NA	NA	4.5	1.7	NA	0.046	NA	0.094	NA	NA	1.9	11	NA	NA	7
MW-11	6/22/2015	3.3	5	6.3	0.43	0.11	0.02	0.046	0.14	NA	NA	0.36	ND(<0.05)	NA	NA	NA	4	0.94	NA	0.036	NA	0.12	NA	NA	1.1	5.4	NA	NA	6.1
MW-11	9/1/2015	3.27	4.34	8.92	0.435	0.105	0.0291	0.0392	0.133	NA	NA	0.385	0.0111	NA	NA	NA	5	0.93	NA	0.0311	NA	0.151	NA	NA	1.17	12.1	NA	NA	6.32
MW-11	12/9/2015	2.63	3.55	6.55	0.55	0.17	0.0479	0.063	0.218	NA	NA	0.457	0.0195	NA	NA	NA	3.74	ND(<0.05)	NA	0.0522	NA	0.0356	NA	NA	0.498	9.7	NA	NA	5.95
MW-11	3/1/2016	4.20	7.22	9.27	1.26	0.477	0.127	0.172	0.633	NA	NA	0.988	ND(<0.05)	NA	NA	NA	5.96	ND(<0.05)	NA	0.142	NA	0.0455	NA	NA	0.591	13.7	NA	NA	10.1
MW-12	9/16/2014	440	55	9.5	0.49	0.24	0.18	0.075	0.22	NA	NA	0.49	0.0085	NA	NA	NA	2.6	65	NA	0.062	NA	NA	NA	NA	5,400	55	NA	NA	3.6
MW-12	10/10/2014	100	21	7.9	0.46	0.14	0.034	0.042	0.16	NA	NA	0.42	0.0063	NA	NA	NA	3.0	41	NA	0.034	NA	NA	NA	NA	1.2	5.5	NA	NA	3.5
MW-12	10/21/2014	120	31	9.6	0.8	0.32	0.12	0.13	0.4	NA	NA	0.67	ND(<0.05)	NA	NA	NA	3.7	48	NA	0.11	NA	NA	NA	NA	24	27	NA	NA	4.4
MW-12	12/4/2014	92	12	6.1	0.86	0.36	ND(<1.0)	ND(<1.0)	0.41	NA	NA	0.57	ND(<1.0)	ND(<3.0)	ND(<10)	NA	3.5	27	ND(<10)	ND(<1.0)	ND(<10)	NA	NA	NA	0.7	0.72	ND(<10)	NA	4.4
MW-12	2/24/2015	92	10	6.2	0.27	0.062	0.028	0.024	0.078	NA	NA	0.25	0.011	NA	NA	NA	2.8	23	NA	0.021	NA	32	NA	NA	5	10	NA	NA	3.5
MW-12	6/23/2015	43	4.5	4.6	0.4	0.15	0.057	0.081	0.19	NA	NA	0.36	ND(<0.05)	NA	NA	NA	2.6	12	NA	0.068	NA	6.6	NA	NA	3	3.2	NA	NA	3.4
MW-12	9/1/2015	44.6	3.61	5.02	0.295	0.0814	0.0319	0.0383	0.0954	NA	NA	0.274	ND(<0.05)	NA	NA	NA	3.12	9.65	NA	0.0296	NA	0.326	NA	NA	0.649	6.13	NA	NA	3.31
MW-12	12/9/2015	36.2	3.59	3.9	0.17	ND(<0.05)	ND(<0.05)	0.0117	0.0406	NA	NA	0.125	ND(<0.05)	NA	NA	NA	1.75	7.51	NA	ND(<0.05)	NA	0.728	NA	NA	2.57	9.33	NA	NA	2.26
MW-12	3/2/2016	27.8	2.76	1.62	0.153	0.0398	0.0192	0.0143	0.0557	NA	NA	0.135	ND(<0.05)	NA	NA	NA	0.987	4.57	NA	ND(<0.05)	NA	0.121	NA	NA	0.720	0.621	NA	NA	1.80
MW-13	9/15/2014	4.6	7.8	3.7	0.29	0.12	0.046	0.054	0.13	NA	NA	0.32	0.01	NA	NA	NA	0.17	0.49	NA	0.038	NA	NA	NA	NA	19	15	NA	NA	2.3
MW-13	12/3/2014	ND(<1.0)	0.40	0.46	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA	NA	ND(<1.0)	ND(<1.0)	ND(<3.0)	ND(<10)	NA	0.40	ND(<1.0)	ND(<10)	ND(<1.0)	ND(<10)	NA	NA	NA	0.4	1	ND(<10)	NA	0.66
MW-13	2/24/2015	0.38	0.64	0.74	0.071	0.017	ND(<0.05)	ND(<0.05)	0.019	NA	NA	0.017	ND(<0.05)	NA	NA	NA	0.58	0.39	NA	ND(<0.05)	NA	0.020	NA	NA	0.8	1.6	NA	NA	0.99
MW-13	6/22/2015	0.5	0.94	0.55	0.09	0.039	ND(<0.05)	ND(<0.05)	0.042	NA	NA	0.086	ND(<0.05)	NA	NA	NA	0.44	0.38	NA	ND(<0.1)	NA	0.032	NA	NA	2.4	0.97	NA	NA	0.66
MW-13	9/1/2015	0.65	1.67	0.795	0.15	0.0566	ND(<0.1)	0.0283	0.0675	NA	NA	0.149	ND(<0.1)	NA	NA	NA	0.645	0.513	NA	ND(<0.1)	NA	0.0267	NA	NA	1.04	1.17	NA	NA	0.977
MW-13	12/9/2015	1.99	3.39	1.61	0.0917	ND(<0.05)	ND(<0.05)	0.00489	0.0154	NA	NA	0.0808	ND(<0.05)	NA	NA	NA	0.882	1.63	NA	ND(<0.05)	NA	0.0937	NA	NA	8.72	4.51	NA	NA	1.37
MW-13	3/2/2016	0.327	0.523	0.305	0.0419	0.0174	ND(<0.05)	0.00961	0.0195	NA	NA	0.0369	ND(<0.05)	NA	NA	NA	0.176	0.310	NA	ND(<0.05)	NA	0.0536	NA	NA	1.47	0.650	NA	NA	0.343

TABLE 5

Summary of SVOC Analytical Results in Groundwater

1770 13th Street
Boulder, Colorado

Sample Location	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (g,h,i) perylene	Benzo (a) pyrene	Benzoic acid	Pyridine	Chrysene	Dibenz (a,h) anthracene	Diethyl phthalate	2,4-Dimethylphenol	2,4-Dinitrotoluene	Fluoranthene	Fluorene	Hexachloroethane	Indeno (1,2,3-cd) pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	Phenanthrene	Phenol	Aniline	Pyrene
		Analyte (SVOCs by 8270D); concentrations are reported in micrograms per liter (ug/L)																											
Colorado Basic Standards for Groundwater[1]		420		2,100	0.0048	0.0048	0.0048		0.2			0.0048	0.0048	5,600	140	0.11	280	280	0.88	0.0048	140				140		2,100	6.1	210
MW-14	2/24/2015	6.4	26	3.4	0.042	0.017	ND(<0.05)	0.015	0.012	NA	NA	0.042	ND(<0.05)	NA	NA	NA	0.81	9.2	NA	ND(<0.05)	NA	36	NA	NA	55	17	NA	NA	0.91
MW-14	6/23/2015	ND(<0.05)	0.39	0.063	0.14	0.17	0.063	0.22	0.15	NA	NA	0.16	ND(<0.05)	NA	NA	NA	0.14	0.042	NA	0.14	NA	0.021	NA	NA	0.097	0.071	NA	NA	0.28
MW-14	9/1/2015	0.0128	ND(<0.05)	0.0407	0.0618	0.0738	0.0279	0.0914	0.0648	NA	NA	0.0715	0.00654	NA	NA	NA	0.0683	0.0219	NA	0.0597	NA	0.0224	NA	NA	ND(<0.25)	0.0487	NA	NA	0.125
MW-14	12/9/2015	0.421	0.744	0.134	0.0259	ND(<0.05)	ND(<0.05)	0.0129	0.0122	NA	NA	0.0157	0.00433	NA	NA	NA	0.1660	0.0591	NA	ND(<0.05)	NA	0.012	NA	NA	0.29	0.141	NA	NA	0.202
MW-14	3/1/2016	ND(<0.05)	0.112	0.0234	0.0474	0.0515	0.0148	0.0442	0.0426	NA	NA	0.0492	ND(<0.05)	NA	NA	NA	0.0548	ND(<0.05)	NA	0.0304	NA	0.0302	NA	NA	0.068	0.0399	NA	NA	0.105
MW-15	2/24/2015	150	260	170	110	66	12	21	59	NA	NA	95	6.7	NA	NA	NA	270	210	NA	18	NA	810	NA	NA	2,900	710	NA	NA	460
MW-15	6/23/2015	110	86	250	140	73	21	33	93	NA	NA	99	7.9	NA	NA	NA	430	130	NA	25	NA	240	NA	NA	260	650	NA	NA	660
MW-15	9/1/2015	51.2	49.9	84	38	ND(<0.25)	ND(<0.25)	8.32	22.1	NA	NA	29.7	2.67	NA	NA	NA	141	58.8	NA	6.92	NA	79.1	NA	NA	140	265	NA	NA	160
MW-15	12/9/2015	20.1	46.4	48	20.7	9.37	1.03	3.64	12.3	NA	NA	15.2	1.09	NA	NA	NA	68.6	30.5	NA	2.95	NA	47.4	NA	NA	148	184	NA	NA	136
MW-15	3/2/2016	18.6	47.5	37.6	16.5	8.89	0.780	2.49	9.63	NA	NA	11.3	ND(<0.05)	NA	NA	NA	51.2	22.5	NA	2.19	NA	42.1	NA	NA	97.6	118	NA	NA	85.0
MW-16	2/24/2015	230	91	19	0.99	0.42	0.16	0.29	0.59	NA	NA	0.9	0.077	NA	NA	NA	6.2	99	NA	0.22	NA	220	NA	NA	280	94	NA	NA	8.2
MW-16	6/23/2015	81	21	12	3.8	2.7	1.1	1.7	2.4	NA	NA	3.3	0.28	NA	NA	NA	7.9	30	NA	0.94	NA	30	NA	NA	29	36	NA	NA	15
MW-16	9/1/2015	90.2	20.8	12.2	2.11	1.3	0.411	1.16	1.89	NA	NA	1.89	ND(<0.05)	NA	NA	NA	6.33	23.2	NA	0.78	NA	31	NA	NA	24.4	38.1	NA	NA	7.74
MW-16	12/9/2015	66.9	15.9	9.12	1.83	0.896	0.292	0.523	1.25	NA	NA	1.57	0.139	NA	NA	NA	5.69	15.8	NA	0.376	NA	10.5	NA	NA	25.6	21.3	NA	NA	8.17
MW-16	3/2/2016	52.9	16.2	6.78	5.09	2.56	1.01	1.44	3.72	NA	NA	4.06	ND(<0.05)	NA	NA	NA	10.0	10.4	NA	1.11	NA	1.31	NA	NA	10.3	8.06	NA	NA	16.3
SPWATER[4]	11/27/2012	19.5	144	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<30)	ND(<20)	ND(<10)	ND(<10)	ND(<10)	26.9	ND(<10)	ND(<10)	39.1	ND(<10)	15.3	ND(<10)	1,190	29.7	126	7,210	39.1	ND(<10)	ND(<20)	ND(<10)
NPWATER[5]	11/28/2012	40.2	258	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	334	147	ND(<10)	ND(<10)	79.3	130	41.2	ND(<10)	72.3	11.4	ND(<10)	49.5	109	149	229	13,300	ND(<10)	205	26.4	ND(<10)
HOLDER[6]	12/6/2012	2,140,000	12,000,000	3,630,000	3,000,000	1,410,000	1,910,000	226,000	2,240,000	NA	NA	2,850,000	ND(<3,300)	NA	NA	NA	3,260,000	8,590,000	NA	452,000	NA	NA	NA	NA	79,000,000	12,500,000	NA	NA	8,180,000
RH-EX-FLUID-01[7]	3/25/2013	8,260	4,570	5,580	2,880	ND(<1,000)	ND(<1,000)	ND(<1,000)	1,050	NA	NA	2,450	ND(<1,000)	NA	NA	NA	5,210	6,430	NA	ND(<1,500)	NA	NA	NA	NA	45,700	21,300	NA	NA	9,710
RH-EX-FLUID-02[7]	3/25/2013	59,800	43,400	44,000	19,800	ND(<20,000)	ND(<20,000)	ND(<20,000)	ND(<20,000)	NA	NA	ND(<20,000)	ND(<20,000)	NA	NA	NA	38,400	49,400	NA	ND(<30,000)	NA	NA	NA	NA	390,000	161,000	NA	NA	ND(<100,000)
FluidSample[8]	1/31/2014	38	280	35	9.9	4.7	1.4	2.6	6.2	NA	NA	9.5	0.72	NA	NA	NA	19	81	NA	1.9	NA	680	NA	NA	2,900	120	NA	NA	32
RH-FLUID[9]	2/13/2014	230	39	16	4.5	3.0	0.81	1.5	3.4	NA	NA	4.4	0.47	NA	NA	NA	9.8	70	NA	1.2	NA	1,100	NA	NA	6,100	70	NA	NA	12
RHFLUID2[9]	2/14/2014	18,000	7,800	7,000	4,100	1,900	830	900	2,700	NA	NA	3,800	400	NA	NA	NA	6,100	11,000	NA	770	NA	57,000	NA	NA	110,000	23,000	NA	NA	7,900
COB_GW1_022514[10]	2/25/2014	380	32	360	240	140	40	62	200	NA	NA	180	18	NA	NA	NA	500	450	NA	52	NA	850	NA	NA	2,200	1,200	NA	NA	660

Notes:

1 - The Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission, 5CCR 1002-41, The Basic Standards for Groundwater, Amended September 11, 2012, effective January 31, 2013 was utilized to evaluate groundwater quality.

2 - Methyl tert-butyl ether (MTBE) is not listed in the CDPHE groundwater standards, so the Colorado Department of Labor and Employment (CDLE), Division of Oil and Public Safety, Storage Tank Regulations 7 C.C.R. 1101-14, Effective: January 1, 2009, Tier 1 Risk Based Screening Level is listed was utilized to evaluate MTBE in groundwater.

3 - Reported as Total Xylenes.

4 - SPWATER sample was collected from fluid observed in the southern 12-inch process pipe during the 2012 investigation.

5 - NPWATER sample was collected from fluid observed in the northern 12-inch process pipe during the 2012 investigation.

6 - HOLDER sample was collected from the fluid observed in the underground vault structure below the Main Holder foundation during the 2012 investigation.

7 - RH-EX-FLUID-01 and RH-EX-FLUID-02 samples were collected from fluid observed in the March 2013 excavation adjacent to east side of the relief holder.

8 - FluidSample was collected from fluid observed in the reservoir structure located near the oil tanks on the Plaza side of the property during 2014 remediation activities.

9 - RHFLUID and RHFLUID2 samples were collected from fluids observed inside of the former relief holder during 2014 remediation activities.

10 - GW1 sample was collected from groundwater within the excavation below Oil Tank 1 (west tank) and the Reservoir.

Semi-volatile Organic Compounds (SVOCs) analyzed by USEPA Method 8270D SIM.
Cells highlighted in **BLUE** indicate an exceedance of the CDPHE groundwater standards.
ND - Not detected at or above the reporting limit.
NA - Not analyzed.

FIGURES

No.	Date	Revisions	By	Ckd

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Project Manager's name: CRAIG LUGOWSKI
Date: July 6, 2016
State: COLORADO | Date Signed | Project Mgr.
Designed by: MM | Drawn by: CM | Checked by

USA ENVIRONMENT, L.P.
A Full Service Environmental Company
17301 WEST COLFAX AVENUE
SUITE 152 GOLDEN CO 80401

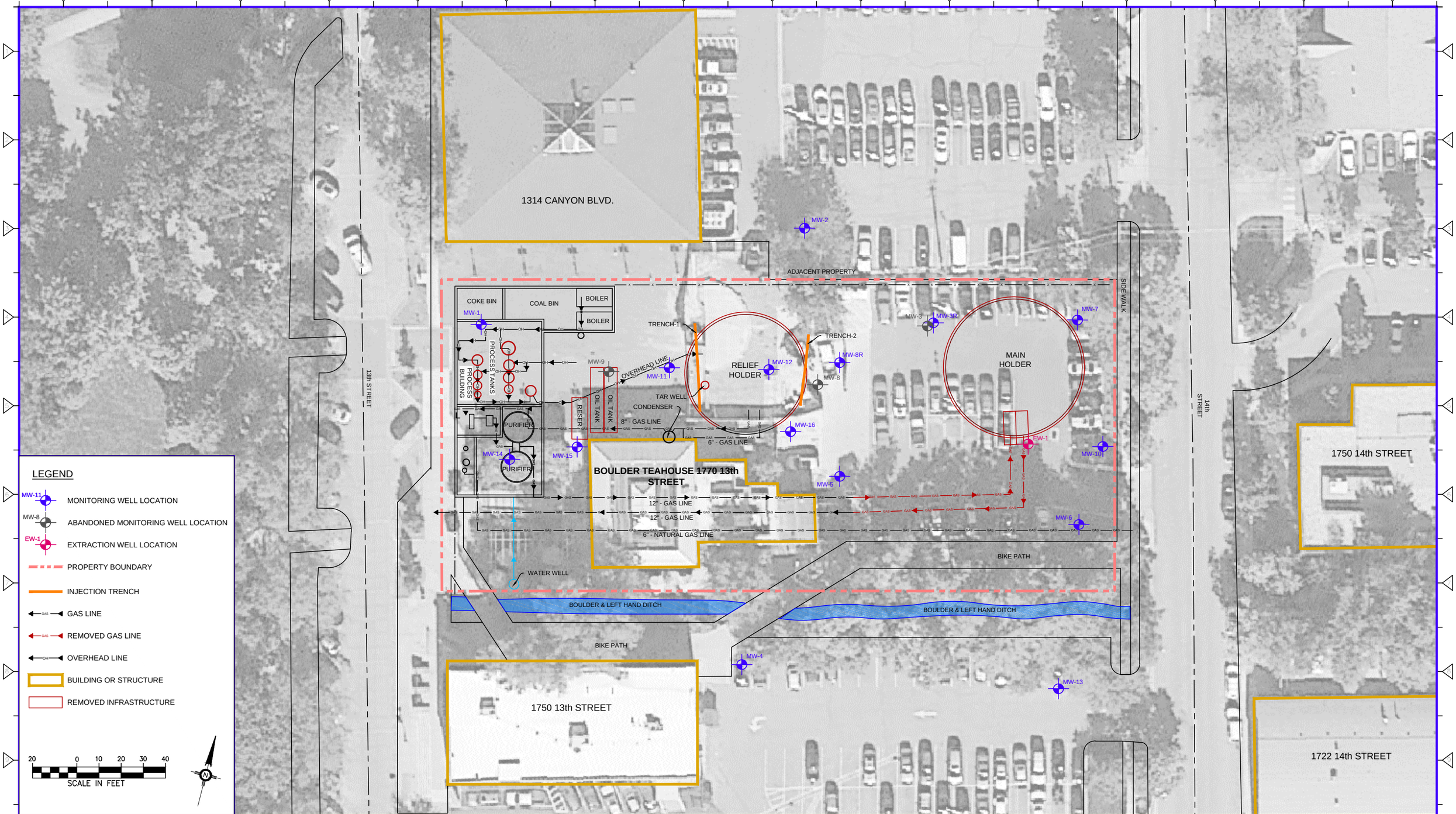
City of Boulder

13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

SITE LOCATION MAP
2014 AERIAL IMAGE

USA ENVIRONMENT Project No.: 5047
Drawing Name: FIGURE 01.dwg
FIGURE 1

Z:\PROJECTS\B\City of Boulder\Figures\2014-2016 Interim Report\2016 1st Qtr\FIGURE 01.dwg



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Project Manager's name: CRAIG LUGOWSKI
Date: July 6, 2016

State	Date Signed	Project Mgr.
CO		
Designed by	**Drawn by**	**Checked by**
	RCM	AS

USA ENVIRONMENT, L.P.
A Full Service Environmental Company
17301 WEST COLFAX AVENUE
SUITE 152 GOLDEN CO 80401

City of Boulder

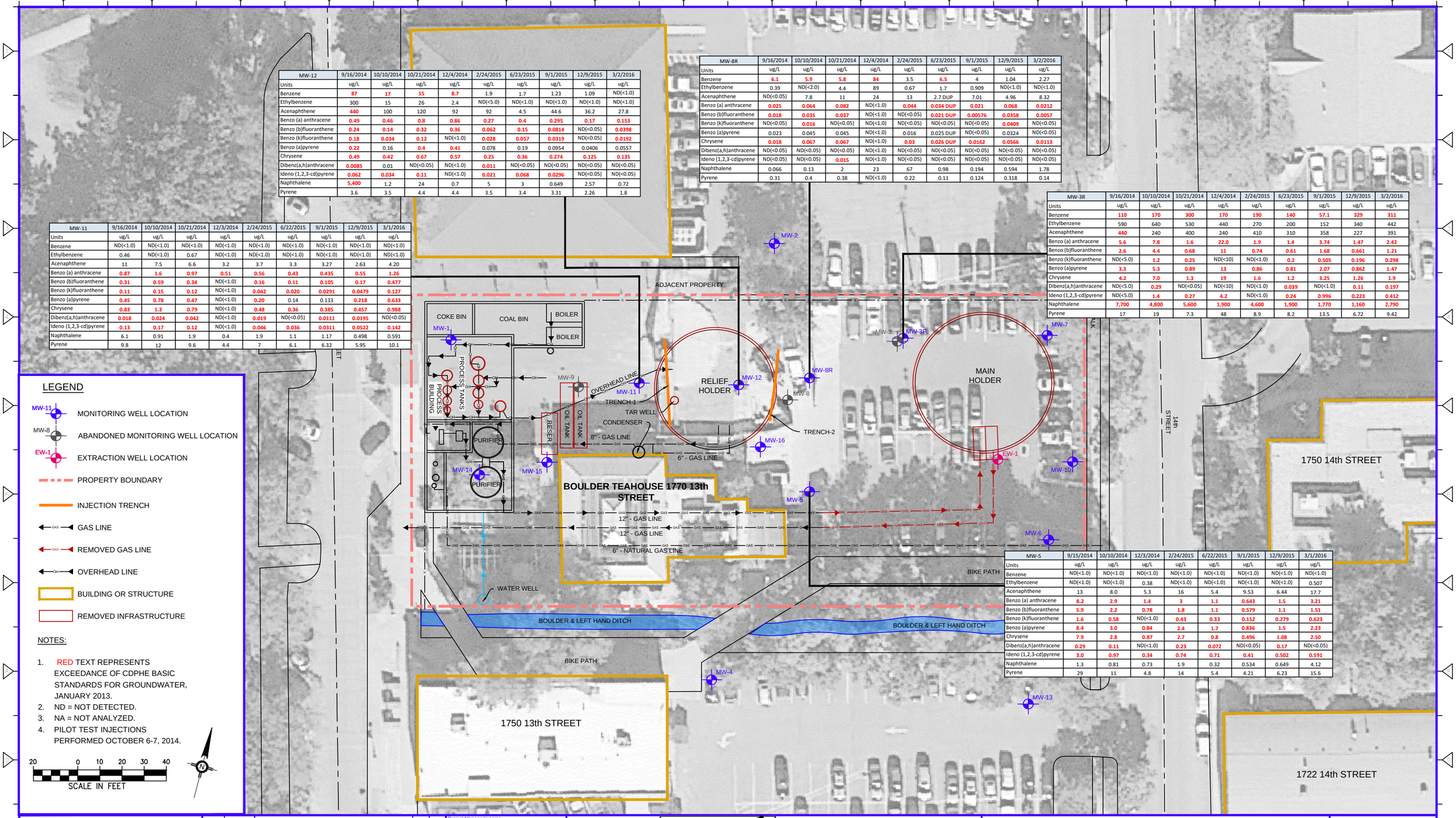
13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

2016 SITE MAP

USA ENVIRONMENT Project No.: 5047
Drawing Name: FIGURE 02.dwg

FIGURE 2

Z:\PROJECTS\B\City of Boulder\Figures\2014\2016 Interim Report\2016 1st QtR\FIGURE 02.dwg



MW-12	9/16/2014	10/10/2014	10/21/2014	12/4/2014	2/24/2015	6/23/2015	9/1/2015	12/9/2015	3/2/2016
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Benzene	87	17	15	8.7	1.9	1.7	1.23	1.09	ND(<1.0)
Ethylbenzene	300	15	26	2.4	ND(<5.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Acenaphthene	440	100	120	92	92	4.5	44.6	36.2	27.8
Benzo (a) anthracene	0.49	0.46	0.8	0.86	0.27	0.4	0.295	0.17	0.153
Benzo (b)fluoranthene	0.24	0.14	0.32	0.36	0.062	0.15	0.0814	ND(<0.05)	0.0398
Benzo (k)fluoranthene	0.18	0.034	0.12	ND(<1.0)	0.028	0.057	0.0319	ND(<0.05)	0.0192
Benzo (a)pyrene	0.22	0.16	0.4	0.41	0.078	0.19	0.0954	0.0406	0.0557
Chrysene	0.49	0.42	0.67	0.57	0.25	0.36	0.274	0.125	0.135
Dibenz(a,h)anthracene	0.0085	0.01	ND(<0.05)	ND(<1.0)	0.011	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Ideno (1,2,3-cd)pyrene	0.062	0.034	0.11	ND(<1.0)	0.021	0.068	0.0296	ND(<0.05)	ND(<0.05)
Naphthalene	5,400	1.2	24	0.7	5	3	0.649	2.57	0.72
Pyrene	3.6	3.5	4.4	4.4	3.5	3.4	3.31	2.26	1.8

MW-8R	9/16/2014	10/10/2014	10/21/2014	12/4/2014	2/24/2015	6/23/2015	9/1/2015	12/9/2015	3/2/2016
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Benzene	6.1	5.9	5.8	84	3.5	6.5	4	1.04	2.27
Ethylbenzene	0.39	ND(<2.0)	4.4	89	0.67	1.7	0.909	ND(<1.0)	ND(<1.0)
Acenaphthene	ND(<0.05)	7.8	11	24	13	2.7 DUP	7.01	4.96	8.32
Benzo (a) anthracene	0.025	0.064	0.082	ND(<1.0)	0.044	0.034 DUP	0.021	0.068	0.0212
Benzo (b)fluoranthene	0.018	0.035	0.037	ND(<1.0)	ND(<0.05)	0.021 DUP	0.00576	0.0358	0.0057
Benzo (k)fluoranthene	ND(<0.05)	0.016	ND(<0.05)	ND(<1.0)	ND(<0.05)	ND(<0.05)	ND(<0.05)	0.0409	ND(<0.05)
Benzo (a)pyrene	0.023	0.045	0.045	ND(<1.0)	0.016	0.025 DUP	ND(<0.05)	0.0324	ND(<0.05)
Chrysene	0.018	0.067	0.067	ND(<1.0)	0.03	0.026 DUP	0.0162	0.0566	0.0113
Dibenz(a,h)anthracene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<1.0)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Ideno (1,2,3-cd)pyrene	ND(<0.05)	ND(<0.05)	0.015	ND(<1.0)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Naphthalene	0.066	0.13	2	23	67	0.98	0.194	0.594	1.78
Pyrene	0.31	0.4	0.38	ND(<1.0)	0.22	0.11	0.124	0.318	0.14

MW-3R	9/16/2014	10/10/2014	10/21/2014	12/4/2014	2/24/2015	6/23/2015	9/1/2015	12/9/2015	3/2/2016
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Benzene	110	170	300	170	190	140	57.1	329	311
Ethylbenzene	590	640	530	440	270	200	152	340	442
Acenaphthene	440	240	400	240	410	310	358	227	391
Benzo (a) anthracene	5.6	7.8	1.6	22.0	1.9	1.4	3.74	1.47	2.42
Benzo (b)fluoranthene	2.6	4.4	0.68	11	0.74	0.61	1.68	0.661	1.21
Benzo (k)fluoranthene	ND(<5.0)	1.2	0.25	ND(<10)	ND(<1.0)	0.2	0.505	0.196	0.298
Benzo (a)pyrene	3.3	5.3	0.89	13	0.86	0.81	2.07	0.862	1.47
Chrysene	4.2	7.0	1.3	19	1.6	1.2	3.25	1.26	1.9
Dibenz(a,h)anthracene	ND(<5.0)	0.29	ND(<0.05)	ND(<10)	ND(<1.0)	0.039	ND(<1.0)	0.11	0.197
Ideno (1,2,3-cd)pyrene	ND(<5.0)	1.4	0.27	4.2	ND(<1.0)	0.24	0.996	0.223	0.412
Naphthalene	7,700	4,800	5,600	1,900	4,600	1,900	1,770	1,160	2,790
Pyrene	17	19	7.3	48	8.9	8.2	13.5	6.72	9.42

MW-11	9/16/2014	10/10/2014	10/21/2014	12/3/2014	2/24/2015	6/22/2015	9/1/2015	12/9/2015	3/1/2016
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Benzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Ethylbenzene	0.46	ND(<1.0)	0.67	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Acenaphthene	11	7.5	6.6	3.2	3.7	3.3	3.27	2.63	4.20
Benzo (a) anthracene	0.87	1.6	0.97	0.51	0.56	0.43	0.435	0.55	1.26
Benzo (b)fluoranthene	0.31	0.59	0.34	ND(<1.0)	0.16	0.11	0.105	0.17	0.477
Benzo (k)fluoranthene	0.11	0.15	0.12	ND(<1.0)	0.042	0.020	0.0291	0.0479	0.127
Benzo (a)pyrene	0.45	0.78	0.47	ND(<1.0)	0.20	0.14	0.133	0.218	0.633
Chrysene	0.83	1.3	0.79	ND(<1.0)	0.48	0.36	0.385	0.457	0.988
Dibenz(a,h)anthracene	0.018	0.024	0.042	ND(<1.0)	0.019	ND(<0.05)	0.0111	0.0195	ND(<0.05)
Ideno (1,2,3-cd)pyrene	0.13	0.17	0.12	ND(<1.0)	0.046	0.036	0.0311	0.0522	0.142
Naphthalene	6.1	0.91	1.9	0.4	1.9	1.1	1.17	0.498	0.591
Pyrene	9.8	12	9.6	4.4	7	6.1	6.32	5.95	10.1

MW-5	9/15/2014	10/10/2014	12/3/2014	2/24/2015	6/22/2015	9/1/2015	12/9/2015	3/1/2016
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Benzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Ethylbenzene	ND(<1.0)	ND(<1.0)	0.38	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	0.507
Acenaphthene	13	8.0	5.3	16	5.4	9.53	6.44	17.7
Benzo (a) anthracene	8.2	2.9	1.4	3	1.1	0.643	1.5	3.21
Benzo (b)fluoranthene	5.9	2.2	0.78	1.8	1.1	0.579	1.1	1.51
Benzo (k)fluoranthene	1.6	0.58	ND(<1.0)	0.43	0.33	0.152	0.279	0.623
Benzo (a)pyrene	8.4	3.0	0.84	2.4	1.7	0.836	1.5	2.23
Chrysene	7.9	2.8	0.87	2.7	0.8	0.496	1.08	2.50
Dibenz(a,h)anthracene	0.29	0.11	ND(<1.0)	0.23	0.072	ND(<0.05)	0.17	ND(<0.05)
Ideno (1,2,3-cd)pyrene	3.0	0.97	0.34	0.74	0.71	0.41	0.502	0.591
Naphthalene	1.3	0.81	0.73	1.9	0.32	0.534	0.649	4.12
Pyrene	29	11	4.8	14	5.4	4.21	6.23	15.6

LEGEND

- MW-11 — MONITORING WELL LOCATION
- MW-8 — ABANDONED MONITORING WELL LOCATION
- EW-1 — EXTRACTION WELL LOCATION
- PROPERTY BOUNDARY
- INJECTION TRENCH
- GAS LINE
- REMOVED GAS LINE
- OVERHEAD LINE
- BUILDING OR STRUCTURE
- REMOVED INFRASTRUCTURE

NOTES:

1. RED TEXT REPRESENTS EXCEEDANCE OF CDPHE BASIC STANDARDS FOR GROUNDWATER, JANUARY 2013.
2. ND = NOT DETECTED.
3. NA = NOT ANALYZED.
4. PILOT TEST INJECTIONS PERFORMED OCTOBER 6-7, 2014.

20 0 10 20 30 40
SCALE IN FEET

No.	Date	Revisions	By	Ckd
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Project Manager's name: CRAIG LUGOWSKI
Date: July 6, 2016

State	Date Signed	Project Mgr.
CO		
Designed by MM	Drawn by RCM	Checked by MM

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17301 WEST COLFAX AVENUE
SUITE 152 GOLDEN CO 80401

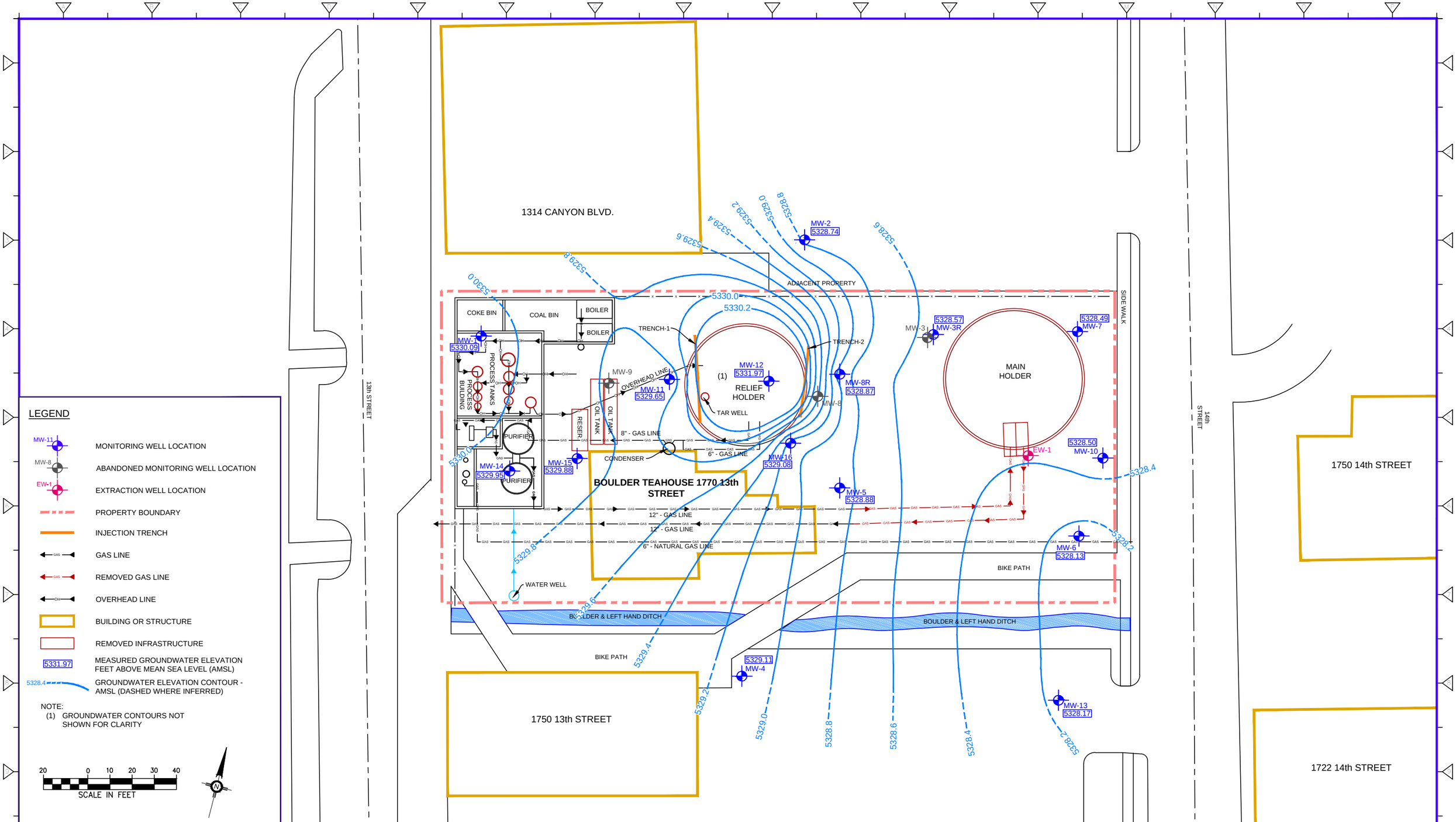
City of Boulder

13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

VOC AND SVOC CONCENTRATIONS IN GROUNDWATER - 2014 PILOT TEST LOCATIONS

USA ENVIRONMENT Project No. 5047
Drawing Name: FIGURE 03.dwg
FIGURE 3

Z:\PROJECTS\B\City of Boulder\Figures\2014-2016 Interim Report\Final Drafts\FIGURE 03.dwg



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Project Manager's name: CRAIG LUGOWSKI
Date: July 6, 2016
State: CO | Date Signed | Project Mgr.
Designed by | Drawn by: FET | Checked by: AS

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SUITE 152 GOLDEN CO 80401

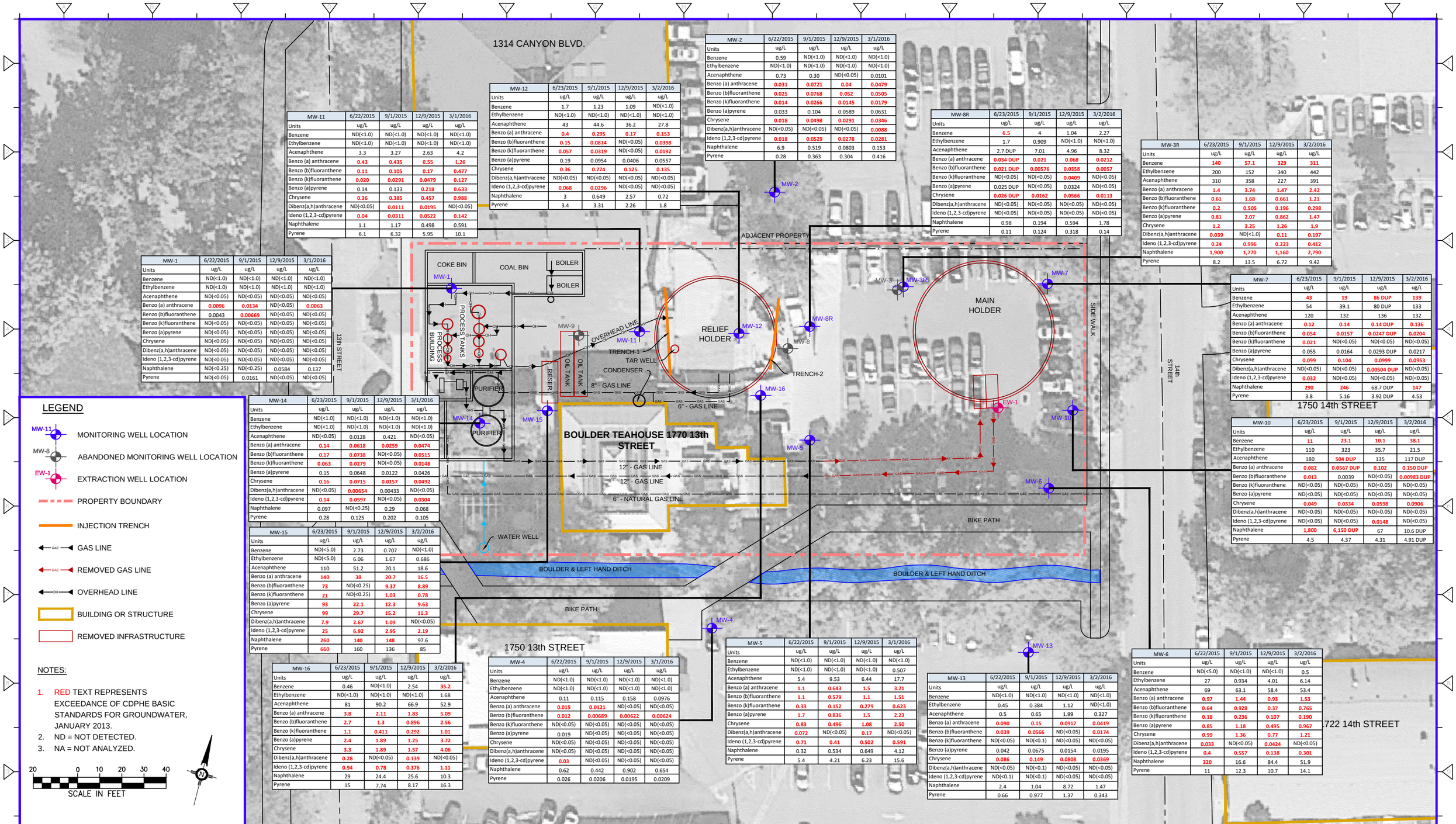
City of Boulder

13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

GROUNDWATER ELEVATION CONTOUR MAP MARCH 1, 2016

USA ENVIRONMENT Project No. 5047
Drawing Name: FIGURE 04.dwg
FIGURE 4

Z:\PROJECTS\B\City of Boulder\Figures\2014\2016 Interim Report\Final Drafts\FIGURE 04.dwg



MW-2	6/22/2015	9/1/2015	12/9/2015	3/1/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	0.59	ND(<1.0)	ND(<1.0)	ND(<1.0)
Ethylbenzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Acenaphthene	0.73	0.30	ND(<0.05)	0.0101
Benzo (a) anthracene	0.031	0.0721	0.04	0.0479
Benzo (b)fluoranthene	0.025	0.0768	0.052	0.0505
Benzo (k)fluoranthene	0.014	0.0266	0.0145	0.0179
Benzo (a)pyrene	0.033	0.104	0.0589	0.0631
Chrysene	0.018	0.0498	0.0291	0.0346
Dibenz(a,h)anthracene	ND(<0.05)	ND(<0.05)	ND(<0.05)	0.0088
Ideno (1,2,3-cd)pyrene	0.018	0.0529	0.0278	0.0281
Naphthalene	6.9	0.519	0.0803	0.153
Pyrene	0.28	0.363	0.304	0.416

MW-12	6/23/2015	9/1/2015	12/9/2015	3/2/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	1.7	1.23	1.09	ND(<1.0)
Ethylbenzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Acenaphthene	43	44.6	36.2	27.8
Benzo (a) anthracene	0.4	0.295	0.17	0.153
Benzo (b)fluoranthene	0.15	0.0814	ND(<0.05)	0.0398
Benzo (k)fluoranthene	0.057	0.0319	ND(<0.05)	0.0192
Benzo (a)pyrene	0.19	0.0954	0.0406	0.0557
Chrysene	0.36	0.274	0.125	0.135
Dibenz(a,h)anthracene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Ideno (1,2,3-cd)pyrene	0.068	0.0296	ND(<0.05)	ND(<0.05)
Naphthalene	3	0.649	2.57	0.72
Pyrene	3.4	3.31	2.26	1.8

MW-11	6/22/2015	9/1/2015	12/9/2015	3/1/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Ethylbenzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Acenaphthene	3.3	3.27	2.63	4.2
Benzo (a) anthracene	0.43	0.435	0.55	1.26
Benzo (b)fluoranthene	0.11	0.105	0.17	0.477
Benzo (k)fluoranthene	0.020	0.0291	0.0479	0.127
Benzo (a)pyrene	0.14	0.133	0.218	0.633
Chrysene	0.36	0.385	0.457	0.988
Dibenz(a,h)anthracene	ND(<0.05)	0.0111	0.0195	ND(<0.05)
Ideno (1,2,3-cd)pyrene	0.04	0.0311	0.0522	0.142
Naphthalene	1.1	1.17	0.498	0.591
Pyrene	6.1	6.32	5.95	10.1

MW-8R	6/23/2015	9/1/2015	12/9/2015	3/2/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	6.5	4	1.04	2.27
Ethylbenzene	1.7	0.909	ND(<1.0)	ND(<1.0)
Acenaphthene	2.7 DUP	7.01	4.96	8.32
Benzo (a) anthracene	0.034 DUP	0.021	0.068	0.0212
Benzo (b)fluoranthene	0.021 DUP	0.00576	0.0358	0.0057
Benzo (k)fluoranthene	ND(<0.05)	ND(<0.05)	0.0409	ND(<0.05)
Benzo (a)pyrene	0.025 DUP	ND(<0.05)	0.0324	ND(<0.05)
Chrysene	0.026 DUP	0.0162	0.0566	0.0113
Dibenz(a,h)anthracene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Ideno (1,2,3-cd)pyrene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Naphthalene	0.98	0.194	0.594	1.78
Pyrene	0.11	0.124	0.318	0.14

MW-3R	6/23/2015	9/1/2015	12/9/2015	3/2/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	140	57.1	329	311
Ethylbenzene	200	152	340	442
Acenaphthene	310	358	227	391
Benzo (a) anthracene	1.4	3.74	1.47	2.42
Benzo (b)fluoranthene	0.61	1.68	0.661	1.21
Benzo (k)fluoranthene	0.2	0.505	0.196	0.298
Benzo (a)pyrene	0.81	2.07	0.862	1.47
Chrysene	1.2	3.25	1.26	1.9
Dibenz(a,h)anthracene	0.039	ND(<1.0)	0.11	0.197
Ideno (1,2,3-cd)pyrene	0.24	0.996	0.223	0.412
Naphthalene	1,900	1,770	1,160	2,790
Pyrene	8.2	13.5	6.72	9.42

MW-1	6/22/2015	9/1/2015	12/9/2015	3/1/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Ethylbenzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Acenaphthene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Benzo (a) anthracene	0.0096	0.0134	ND(<0.05)	0.0063
Benzo (b)fluoranthene	0.0043	0.00669	ND(<0.05)	ND(<0.05)
Benzo (k)fluoranthene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Benzo (a)pyrene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Chrysene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Dibenz(a,h)anthracene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Ideno (1,2,3-cd)pyrene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Naphthalene	ND(<0.25)	ND(<0.25)	0.0584	0.137
Pyrene	ND(<0.05)	0.0161	ND(<0.05)	ND(<0.05)

MW-7	6/23/2015	9/1/2015	12/9/2015	3/2/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	43	19	86 DUP	139
Ethylbenzene	54	39.1	80 DUP	133
Acenaphthene	120	132	136	132
Benzo (a) anthracene	0.12	0.14	0.14 DUP	0.136
Benzo (b)fluoranthene	0.054	0.0157	0.0247 DUP	0.0204
Benzo (k)fluoranthene	0.021	ND(<0.05)	ND(<0.05)	ND(<0.05)
Benzo (a)pyrene	0.055	0.0164	0.0293 DUP	0.0217
Chrysene	0.099	0.104	0.0999	0.0953
Dibenz(a,h)anthracene	ND(<0.05)	ND(<0.05)	0.00504 DUP	ND(<0.05)
Ideno (1,2,3-cd)pyrene	0.032	ND(<0.05)	ND(<0.05)	ND(<0.05)
Naphthalene	290	246	68.7 DUP	147
Pyrene	3.8	5.16	3.92 DUP	4.53

MW-10	6/23/2015	9/1/2015	12/9/2015	3/2/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	11	23.1	10.1	38.1
Ethylbenzene	110	323	35.7	21.5
Acenaphthene	180	504 DUP	135	117 DUP
Benzo (a) anthracene	0.082	0.0567 DUP	0.102	0.150 DUP
Benzo (b)fluoranthene	0.013	0.0039	ND(<0.05)	0.00983 DUP
Benzo (k)fluoranthene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Benzo (a)pyrene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Chrysene	0.049	0.0334	0.0598	0.0906
Dibenz(a,h)anthracene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Ideno (1,2,3-cd)pyrene	ND(<0.05)	ND(<0.05)	0.0148	ND(<0.05)
Naphthalene	1,800	6,150 DUP	67	10.6 DUP
Pyrene	4.5	4.37	4.31	4.91 DUP

MW-14	6/23/2015	9/1/2015	12/9/2015	3/1/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Ethylbenzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Acenaphthene	ND(<0.05)	0.0128	0.421	ND(<0.05)
Benzo (a) anthracene	0.14	0.0618	0.0259	0.0474
Benzo (b)fluoranthene	0.17	0.0738	ND(<0.05)	0.0515
Benzo (k)fluoranthene	0.063	0.0279	ND(<0.05)	0.0148
Benzo (a)pyrene	0.15	0.0648	0.0122	0.0426
Chrysene	0.16	0.0715	0.0157	0.0492
Dibenz(a,h)anthracene	ND(<0.05)	0.00654	0.00433	ND(<0.05)
Ideno (1,2,3-cd)pyrene	0.14	0.0597	ND(<0.05)	0.0304
Naphthalene	0.097	ND(<0.25)	0.29	0.068
Pyrene	0.28	0.125	0.202	0.105

MW-15	6/23/2015	9/1/2015	12/9/2015	3/2/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	ND(<5.0)	2.73	0.707	ND(<1.0)
Ethylbenzene	ND(<5.0)	6.06	1.67	0.686
Acenaphthene	110	51.2	20.1	18.6
Benzo (a) anthracene	140	38	20.7	16.5
Benzo (b)fluoranthene	73	ND(<0.25)	9.37	8.89
Benzo (k)fluoranthene	21	ND(<0.25)	1.03	0.78
Benzo (a)pyrene	93	22.1	12.3	9.63
Chrysene	99	29.7	15.2	11.3
Dibenz(a,h)anthracene	7.9	2.67	1.09	ND(<0.05)
Ideno (1,2,3-cd)pyrene	25	6.92	2.95	2.19
Naphthalene	260	140	148	97.6
Pyrene	660	160	136	85

MW-16	6/23/2015	9/1/2015	12/9/2015	3/2/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	0.46	ND(<1.0)	2.54	35.2
Ethylbenzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	1.68
Acenaphthene	81	90.2	66.9	52.9
Benzo (a) anthracene	3.8	2.11	1.83	5.09
Benzo (b)fluoranthene	2.7	1.3	0.896	2.56
Benzo (k)fluoranthene	1.1	0.411	0.292	1.01
Benzo (a)pyrene	2.4	1.89	1.25	3.72
Chrysene	3.3	1.89	1.57	4.06
Dibenz(a,h)anthracene	0.28	ND(<0.05)	0.139	ND(<0.05)
Ideno (1,2,3-cd)pyrene	0.94	0.78	0.376	1.11
Naphthalene	29	24.4	25.6	10.3
Pyrene	15	7.74	8.17	16.3

MW-4	6/22/2015	9/1/2015	12/9/2015	3/1/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Ethylbenzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Acenaphthene	0.11	0.115	0.158	0.0976
Benzo (a) anthracene	0.015	0.0121	ND(<0.05)	ND(<0.05)
Benzo (b)fluoranthene	0.012	0.00689	0.00622	0.00624
Benzo (k)fluoranthene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Benzo (a)pyrene	0.019	ND(<0.05)	ND(<0.05)	ND(<0.05)
Chrysene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Dibenz(a,h)anthracene	ND(<0.05)	ND(<0.05)	ND(<0.05)	ND(<0.05)
Ideno (1,2,3-cd)pyrene	0.03	ND(<0.05)	ND(<0.05)	ND(<0.05)
Naphthalene	0.62	0.442	0.902	0.654
Pyrene	0.026	0.0206	0.0195	0.0209

MW-5	6/22/2015	9/1/2015	12/9/2015	3/1/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Ethylbenzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	0.507
Acenaphthene	5.4	9.53	6.44	17.7
Benzo (a) anthracene	1.1	0.643	1.5	3.21
Benzo (b)fluoranthene	1.1	0.579	1.1	1.51
Benzo (k)fluoranthene	0.33	0.152	0.279	0.623
Benzo (a)pyrene	1.7	0.836	1.5	2.23
Chrysene	0.83	0.496	1.08	2.50
Dibenz(a,h)anthracene	0.072	ND(<0.05)	0.17	ND(<0.05)
Ideno (1,2,3-cd)pyrene	0.71	0.41	0.502	0.591
Naphthalene	0.32	0.534	0.649	4.12
Pyrene	5.4	4.21	6.23	15.6

MW-13	6/22/2015	9/1/2015	12/9/2015	3/2/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
Ethylbenzene	0.45	0.384	1.12	ND(<1.0)
Acenaphthene	0.5	0.65	1.99	0.327
Benzo (a) anthracene	0.090	0.15	0.0917	0.0419
Benzo (b)fluoranthene	0.039	0.0566	ND(<0.05)	0.0174
Benzo (k)fluoranthene	ND(<0.05)	ND(<0.1)	ND(<0.05)	ND(<0.05)
Benzo (a)pyrene	0.042	0.0675	0.0154	0.0195
Chrysene	0.086	0.149	0.0808	0.0369
Dibenz(a,h)anthracene	ND(<0.05)	ND(<0.1)	ND(<0.05)	ND(<0.05)
Ideno (1,2,3-cd)pyrene	ND(<0.1)	ND(<0.1)	ND(<0.05)	ND(<0.05)
Naphthalene	2.4	1.04	8.72	1.47
Pyrene	0.66	0.977	1.37	0.343

MW-6	6/22/2015	9/1/2015	12/9/2015	3/2/2016
Units	ug/L	ug/L	ug/L	ug/L
Benzene	ND(<5.0)	ND(<1.0)	ND(<1.0)	0.5
Ethylbenzene	27	0.934	4.01	6.14
Acenaphthene	69	63.1	58.4	53.4
Benzo (a) anthracene	0.97	1.44	0.93	1.53
Benzo (b)fluoranthene	0.64	0.928	0.37	0.765
Benzo (k)fluoranthene	0.18	0.236	0.107	0.190
Benzo (a)pyrene	0.85	1.18	0.495	0.967
Chrysene	0.99	1.36	0.77	1.21
Dibenz(a,h)anthracene	0.033	ND(<0.05)	0.0424	ND(<0.05)
Ideno (1,2,3-cd)pyrene	0.4	0.557	0.138	0.301
Naphthalene	320	16.6	84.4	51.9
Pyrene	11	12.3	10.7	14.1

LEGEND

- MW-11 — MONITORING WELL LOCATION
- MW-8 — ABANDONED MONITORING WELL LOCATION
- EW-1 — EXTRACTION WELL LOCATION
- PROPERTY BOUNDARY
- INJECTION TRENCH
- GAS LINE
- REMOVED GAS LINE
- OVERHEAD LINE
- BUILDING OR STRUCTURE
- REMOVED INFRASTRUCTURE

NOTES:

1. RED TEXT REPRESENTS EXCEEDANCE OF CDPHE BASIC STANDARDS FOR GROUNDWATER, JANUARY 2013.
2. ND = NOT DETECTED.
3. NA = NOT ANALYZED.

20 0 10 20 30 40
SCALE IN FEET

No.	Date	Revisions	By	Ckd
01				

THIS DRAWING IS THE PROPERTY OF THE USA ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REPRODUCED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Project Manager's name: CRAIG LUGOWSKI
Date: July 6, 2016
State: CO | Date Signed | Project Mgr.
Designed by: MM | Drawn by: RCM | Checked by: MM

USA ENVIRONMENT, L.P.
A Full Service Environmental Company
17301 WEST COLFAX AVENUE
SUITE 152 GOLDEN CO 80401

City of Boulder

13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

VOC AND SVOC CONCENTRATIONS IN GROUNDWATER - JUNE 2015 - MARCH 2016

USA ENVIRONMENT Project No.: 5047
Drawing Name: FIGURE 05.dwg

FIGURE 5

Z:\PROJECTS\B\City of Boulder\Figures\2014-2016 Interim Report\Final Drafts\FIGURE 05.dwg

APPENDICES

APPENDIX A

Laboratory Data Reports

APPENDIX B

Boring Logs, Well Construction Logs and Well Development Logs

PROJECT: **City of Boulder - 13th Street Plaza**		BORING ID: **B-3R**
LOCATION: **1770 13th Street, Boulder, Colorado**		WELL ID: **MW-3R**
NORTHING (ft):	EASTING (ft):	WELL CONSTRUCTION DETAILS
LOGGED BY: **AHS**	DEPTH TO WATER (ft bgs): ▽ = 8.0 ▼ = 7.96	TOTAL DEPTH (ft bgs): **Drill: 18.37** **Sample: 20.0**
DATE STARTED: **9/4/14**	GROUND SURFACE ELEV. (ft MSL):	TOC ELEVATION (ft MSL):
DATE COMPLETED: **9/4/14**	BORING DIAMETER (inches): **8**	CASING DIAMETER (inches): **2**

Total Casing Length (ft): 18.07 Slot Size (in): 0.01 Sand Size: 10/20

Surface Seal (ft bgs): 0 to 0.72 Type: concrete

Bentonite Seal (ft bgs): 0.72 to 6.5 Type: medium chips

Filter Pack Interval (ft bgs): 6.5 to 18.37

Screen Interval (ft bgs): 8.3 to 17.86

Notes:

Depth (feet)	Sample Run (ft)	Sample Recovery (ft)	Density (blows/ft)	PID (ppm)	Sample Type	Saturation (Dry / Moist / Wet)	Bedrock Fracture Intensity (Massive (>3ft) / Slightly (1-3ft) / Moderately (.5-1ft) / Intensely (.1-.5ft) / Crushed (<0.1ft))	USCS Symbol	SOIL/ROCK DESCRIPTION
0									0.0 - 0.5 ft; ASPHALT
1								CL	0.5 - 2.5 ft; CLAY (CL): brown; mostly medium plasticity fines; ~5-10% fine to medium sand; moist; (as observed in drill cuttings).
2									
3								SW	2.5 - 7.0 ft; SAND (SW); dense; yellow brown; mostly fine to coarse sand; angular to subangular; well graded; ~5% fines; trace gravel; maximum 2 inch diameter; moist.
4									
5	2	1.2	5, 10, 17, 18	0, 0	S1				
6									
7								GP	7.0 - 11.5 ft; GRAVEL (GP); dense; dark brown; medium gravel; poorly graded; ~15-20% fine to coarse sand; moderate hydrocarbon odor; wet.
8							▽ ▼		
9									
10	1.5	1.1	50, 26, 11	0.3	S2				@ 10-11.5 ft: Laboratory sample collected. (sample ID: COB_MW3R_090414)
11									
12								SW	11.5 - 18.5 ft; SAND (SW); as above except wet.
13									
14									
15	2	1.4	6, 8, 6, 14	0.2	S3				@ 15.0 ft; hydrocarbon odor in sample shoe; product observed on center plug.
16									
17									
18									
19	1.5	1.2	3, 9, 22		S4			SH	**BEDROCK:** 18.5 - 20.0 ft; SHALE (SH); Pierre Shale. Drilled to 18.5 feet. Sampled to 20.0 feet.
20									

NOTES: ▼ = static water level in completed well ▽ = water first encountered during drilling

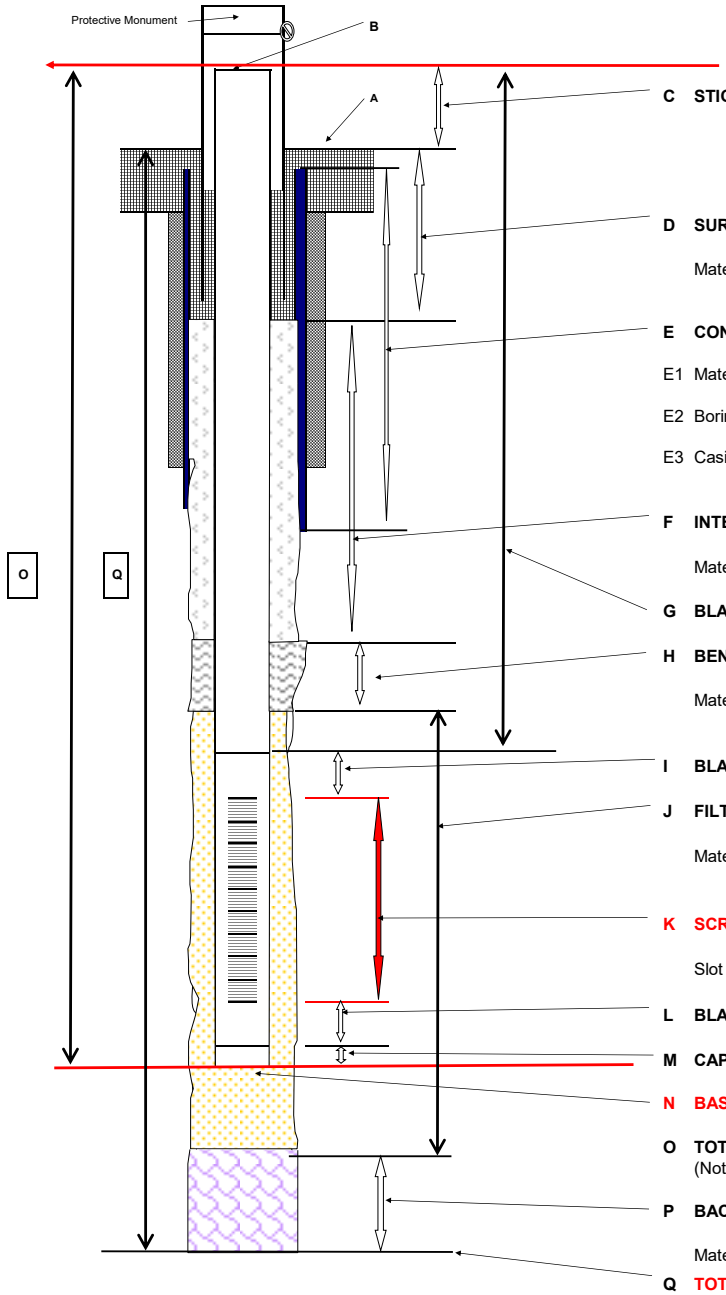
Privileged and Confidential
Attorney-Client Communication

DRILLING CONTRACTOR: Site Services Inc. DRILLING METHOD: Hollow Stem Auger

DRILLING EQUIPMENT: CME 75 SAMPLING METHOD: 2" SPT

MONITORING WELL CONSTRUCTION DETAILS

FACILITY/PROJECT NAME:	13th Street Plaza	**WELL NAME/ID:**	MW-3R
LOCATION	1770 13th Street Plaza Boulder, CO	**A GROUND SURFACE ELEVATION**	5338.57 FT.-MSL
		B TOP OF CASING ELEVATION	5338.28 FT.-MSL
TYPE OF WELL	Monitoring Well	**NORTHING**	1248669.07 FEET
PERMIT NO.	NOI 052829-MH	**EASTING**	3062496.03 FEET
CASING DIAMETER	2 INCHES	**DATE DRILLED**	9/4/14
BORING DIAMETER	8 INCHES	**DATE INSTALLED**	9/4/14



C	**STICK-UP :**	GROUND	N/A	T.O.C	N/A	INTERVAL	N/A	FEET
D	**SURFACE SEAL :**	BOT.	0.72	TOP	0	INTERVAL	0.72	FEET
	Material Type/ Quantity:	Concrete						
E	**CONDUCTOR**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
E1	Material Type:	N/A						
E2	Boring Diameter:	N/A	inches					
E3	Casing Diameter:	N/A	inches					
F	**INTERMEDIATE SEAL:**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
	Material Type/ Quantity:	N/A						
G	**BLANK CASING:**	BOT.	8.14	TOP	0.29	INTERVAL	7.85	FEET
H	**BENTONITE SEAL:**	BOT.	6.5	TOP	0.72	INTERVAL	5.78	FEET
	Material Type/ Quantity:	Medium bentonite chips						
I	**BLANK SCREEN TO TOP SLOT**	BOT.	8.30	TOP	8.14	INTERVAL	0.16	FEET
J	**FILTER PACK:**	BOT.	18.37	TOP	6.50	INTERVAL	11.87	FEET
	Material Type/ Quantity:	Silica Sand 10/20						
K	**SCREEN INTERVAL:**	BOT.	17.86	TOP	8.30	INTERVAL	9.56	FEET
	Slot Size & Type:	0.01	PVC					
L	**BLANK SCREEN TO BOTTOM SLOT**						0.28	FEET
M	**CAP LENGTH**						0.23	FEET
N	**BASE OF WELL CASING AT:**						18.37	FEET
O	**TOTAL CASING LENGTH:** (Note: ADD: M +L +K+ I + G)						18.08	FEET
P	**BACKFILL MATERIAL:**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
	Material Type/ Quantity:	N/A						
Q	**TOTAL BORING DEPTH:**						18.37	FEET

DRILLED BY: Site Services
LOGGED BY: A. Stone
DRILLING METHOD H.S.A [X] Stratex [ ] ROTARY [ ] ODEX [ ]
SAMPLER TYPE & DIMENSIONS
2"x24" SPT

MAP OF WELL LOCATION OF GENERAL NOTES:

I hearby certify that the information on this form is true and correct to the best of my knowledge

SIGNATURE

FIRM
USA Environment, LP

PROJECT: **City of Boulder - 13th Street Plaza**		BORING ID: **B-8R**
LOCATION: **1770 13th Street, Boulder, Colorado**		WELL ID: **MW-8R**
NORTHING (ft):	EASTING (ft):	WELL CONSTRUCTION DETAILS
LOGGED BY: **AHS**	DEPTH TO WATER (ft bgs): ▽ = 8.5 ▼ = 12.13	TOTAL DEPTH (ft bgs): **Drill: 15.0** **Sample: 17.0**
DATE STARTED: **9/4/14**	GROUND SURFACE ELEV. (ft MSL):	TOC ELEVATION (ft MSL):
DATE COMPLETED: **9/4/14**	BORING DIAMETER (inches): **8**	CASING DIAMETER (inches): **2**

Total Casing Length (ft): 18.07 Slot Size (in): 0.01 Sand Size: 10/20

Surface Seal (ft bgs): 0 to 0.75 Type: concrete

Bentonite Seal (ft bgs): 0.75 to 3.5 Type: medium chips

Filter Pack Interval (ft bgs): 3.5 to 15.52

Screen Interval (ft bgs): 5.42 to 15.03

Notes:

Depth (feet)	Sample Run (ft)	Sample Recovery (ft)	Density (blows/ft)	PID (ppm)	Sample Type	Saturation (Dry / Moist / Wet)	Bedrock Fracture Intensity (Massive (>3ft) / Slightly (1-3ft) / Moderately (.5-1ft) / Intensely (.1-.5ft) / Crushed (<0.1ft))	USCS Symbol	SOIL/ROCK DESCRIPTION
0									0.0 - 0.75 ft; CONCRETE
1–7	2	2	1, 2, 3, 6	0	S1			CL	0.75 - 8.5 ft; SANDY CLAY (CL); stiff; mottled yellow-brown and reddish brown; mostly medium-plasticity fines; ~30-35% fine sand; trace medium sand; trace gravel; maximum diameter 1 inch; moist. (FILL)
8							▽		
9–12	2	1.5	1, 1, 1, 1	0	S2		▼	CL	8.5 - 16.0 ft; CLAY with SAND (CL); very soft; yellow-brown; medium-plasticity fines; ~15-20% fine sand; trace fine gravel; wet. (FILL) @ 10.0 - 12.0 ft: Laboratory sample collected (Sample ID: COB_MW8R_090414)
15–16	2	0.8	1, 1, 2	5.7	S3			SC	16.0 - 17.0 ft; CLAYEY SAND (SC); very loose; dark brown; fime to medium sand; ~25-35% fines; slight hydrocarbon odor; wet. (FILL)

Drilled to 15.0 feet. Sampled to 17.0 feet.

NOTES: ▼ = static water level in completed well ▽ = water first encountered during drilling

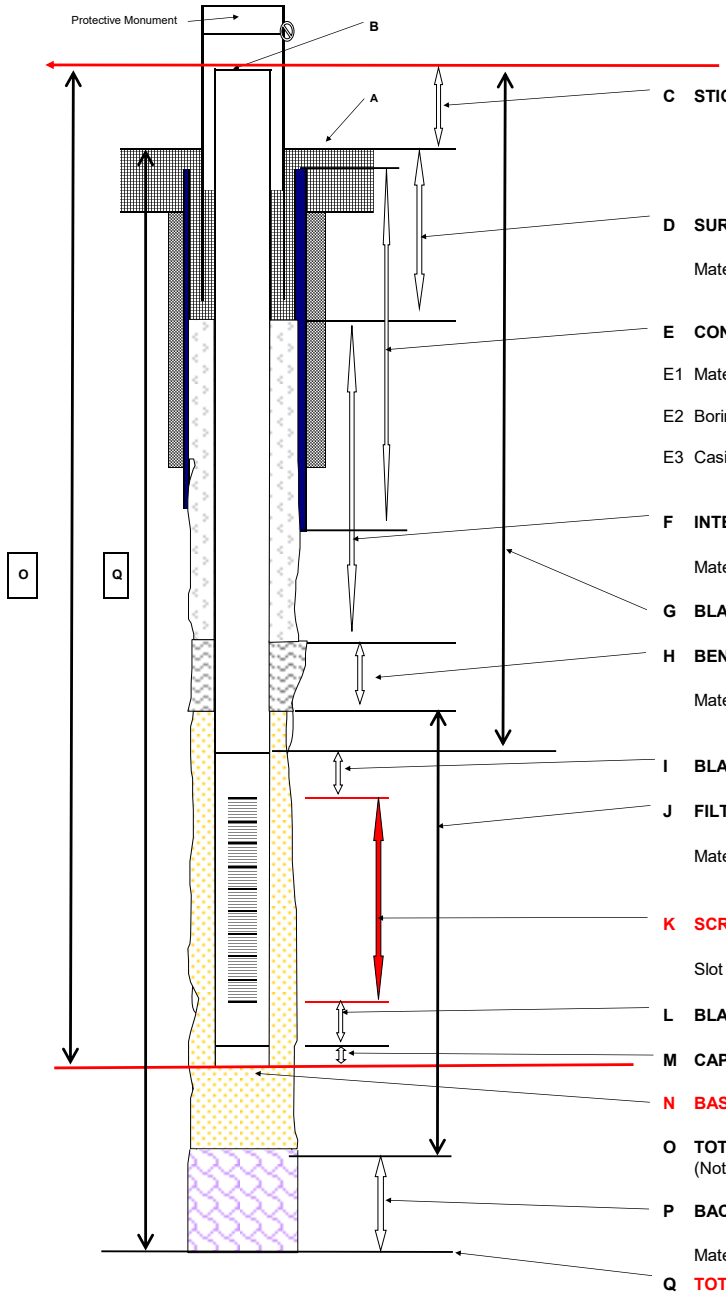
Privileged and Confidential
Attorney-Client Communication

DRILLING CONTRACTOR: Site Services Inc. DRILLING METHOD: Hollow Stem Auger

DRILLING EQUIPMENT: CME 75 SAMPLING METHOD: 2" SPT

MONITORING WELL CONSTRUCTION DETAILS

FACILITY/PROJECT NAME:	13th Street Plaza	**WELL NAME/ID:**	MW-8R
LOCATION	1770 13th Street Plaza Boulder, CO	**A GROUND SURFACE ELEVATION**	5338.83 FT.-MSL
		B TOP OF CASING ELEVATION	5338.43 FT.-MSL
TYPE OF WELL	Monitoring Well	**NORTHING**	1248641.23 FEET
PERMIT NO.	NOI 052829-MH	**EASTING**	3062459.53 FEET
CASING DIAMETER	2 INCHES	**DATE DRILLED**	9/4/14
BORING DIAMETER	8 INCHES	**DATE INSTALLED**	9/4/14



C	**STICK-UP :**	GROUND	N/A	T.O.C	N/A	INTERVAL	N/A	FEET
D	**SURFACE SEAL :**	BOT.	0.75	TOP	0	INTERVAL	0.75	FEET
	Material Type/ Quantity:	Concrete						
E	**CONDUCTOR**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
E1	Material Type:	N/A						
E2	Boring Diameter:	N/A	inches					
E3	Casing Diameter:	N/A	inches					
F	**INTERMEDIATE SEAL:**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
	Material Type/ Quantity:	N/A						
G	**BLANK CASING:**	BOT.	5.13	TOP	0.40	INTERVAL	4.73	FEET
H	**BENTONITE SEAL:**	BOT.	3.5	TOP	0.75	INTERVAL	2.75	FEET
	Material Type/ Quantity:	Medium bentonite chips						
I	**BLANK SCREEN TO TOP SLOT**	BOT.	5.42	TOP	5.13	INTERVAL	0.29	FEET
J	**FILTER PACK:**	BOT.	15.52	TOP	3.5	INTERVAL	12.02	FEET
	Material Type/ Quantity:	Silica Sand 10/20						
K	**SCREEN INTERVAL:**	BOT.	15.03	TOP	5.42	INTERVAL	9.61	FEET
	Slot Size & Type:	0.01	PVC					
L	**BLANK SCREEN TO BOTTOM SLOT**						0.14	FEET
M	**CAP LENGTH**						0.35	FEET
N	**BASE OF WELL CASING AT:**						15.52	FEET
O	**TOTAL CASING LENGTH:** (Note: ADD: M +L +K+ I + G)						15.12	FEET
P	**BACKFILL MATERIAL:**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
	Material Type/ Quantity:	N/A						
Q	**TOTAL BORING DEPTH:**						15.52	FEET

DRILLED BY: Site Services
LOGGED BY: A. Stone
DRILLING METHOD **H.S.A** [X] **ROTARY** [ ]
Stratex [ ] **ODEX** [ ]
SAMPLER TYPE & DIMENSIONS
2"x24" SPT

MAP OF WELL LOCATION OF GENERAL NOTES:

I hearby certify that the information on this form is true and correct to the best of my knowledge

SIGNATURE

FIRM
USA Environment, LP

PROJECT: **City of Boulder - 13th Street Plaza**		BORING ID: **B-11**
LOCATION: **1770 13th Street, Boulder, Colorado**		WELL ID: **MW-11**
NORTHING (ft):	EASTING (ft):	
LOGGED BY: **AHS**	DEPTH TO WATER (ft bgs): ▽ = 12.5 ▼ = 8.70	TOTAL DEPTH (ft bgs): **Drill: 18.0** **Sample: 20.0**
DATE STARTED: **9/5/14**	GROUND SURFACE ELEV. (ft MSL):	TOC ELEVATION (ft MSL):
DATE COMPLETED: **9/5/14**	BORING DIAMETER (inches): **8**	CASING DIAMETER (inches): **2**

WELL CONSTRUCTION DETAILS

Total Casing Length (ft): 18.18 Slot Size (in): 0.01 Sand Size: 10/20

Surface Seal (ft bgs): 0 to 0.5 Type: concrete

Bentonite Seal (ft bgs): 0.5 to 6.5 Type: medium chips

Filter Pack Interval (ft bgs): 6.5 to 18.51

Screen Interval (ft bgs): 8.4 to 17.98

Notes:

Depth (feet)	Sample Run (ft)	Sample Recovery (ft)	Density (blows/ft)	PID (ppm)	Sample Type	Saturation (Dry / Moist / Wet)	Bedrock Fracture Intensity (Massive (>3ft) / Slightly (1-3ft) / Moderately (.5-1ft) / Intensely (.1-.5ft) / Crushed (<0.1ft))	USCS Symbol	Lithographic Column	SOIL/ROCK DESCRIPTION
0										0.0 - 0.3 ft; ASPHALT
1								CL		0.3 - 2.5 ft; SANDY CLAY (CL); medium-plasticity fines; ~30% fine sand; ~10-15% gravel (as observed in drill cuttings). (FILL)
2										
3								CL		2.5 - 11.5 ft; CLAY (CL); stiff; red to dark brown; medium-plasticity fines; ~5-10% sand; moist. (FILL)
4										
5	2	1.6	2, 2, 5, 5	0, 0	S1					
6										
7										
8							▼			
9										
10	2	1.6	2, 3, 12, 20	0, 0, 0	S2					@ 10-12 ft; Laboratory samples collected. (Sample ID: COB_MW11_090514 and COB_FIELDDUP_090514)
11										
12							▽	SW		11.5 - 19.8 ft; SAND (SW); medium dense; dark brown; fine to coarse sand; 25% gravel; maximum 1 inch diameter; ~10-15% fines; moist. (FILL)
13										
14										
15	2	1.5	4, 4, 10, 19	0.6, 0.5, 0.6	S3					
16										
17										@ 17.5 ft; dense.
18	2	1.2	2, 11, 21, 16	116	S4					**BEDROCK:** 19.8 - 20.0 ft; Shale (SH); Pierre Shale. Drilled to 18.0 feet. Sampled to 20.0 feet.
19										
20								SH		

NOTES: ▼ = static water level in completed well ▽ = water first encountered during drilling

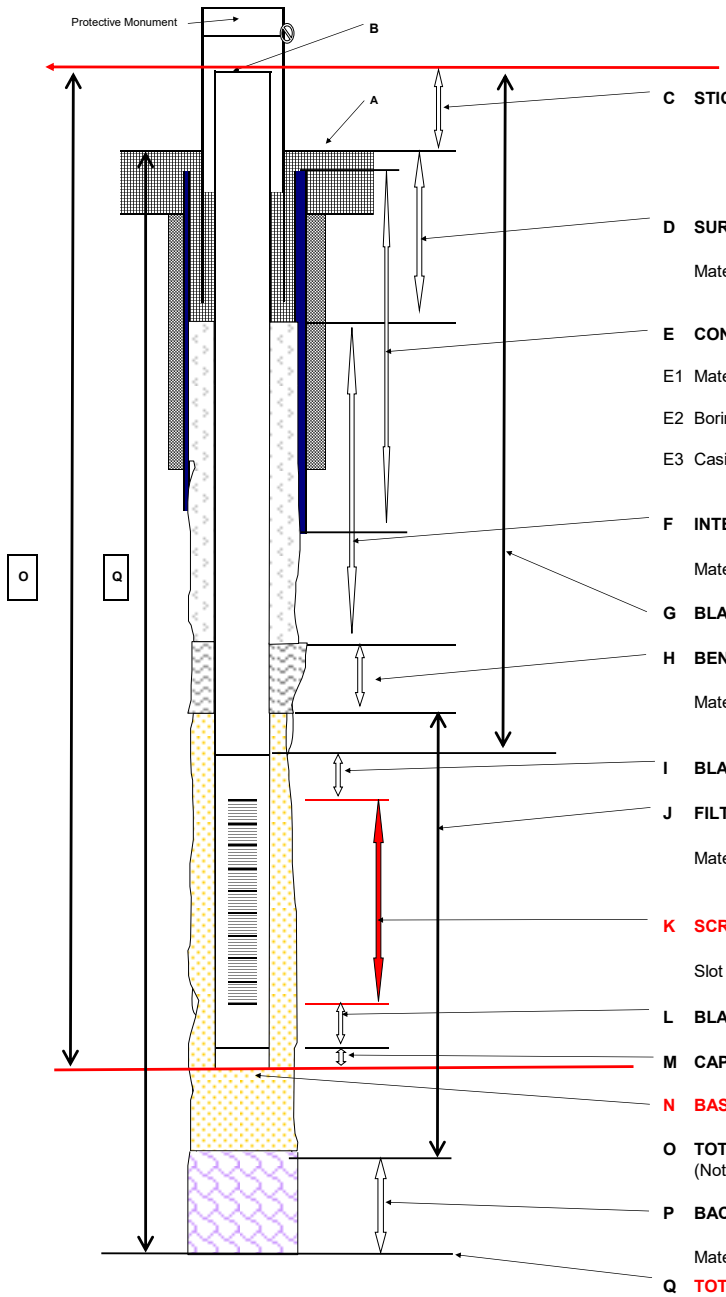
Privileged and Confidential
Attorney-Client Communication

DRILLING CONTRACTOR: Site Services Inc. DRILLING METHOD: Hollow Stem Auger

DRILLING EQUIPMENT: CME 75 SAMPLING METHOD: 2" SPT

MONITORING WELL CONSTRUCTION DETAILS

FACILITY/PROJECT NAME:	13th Street Plaza	**WELL NAME/ID:**	MW-11
LOCATION	1770 13th Street Plaza Boulder, CO	**A GROUND SURFACE ELEVATION**	5340.76 FT.-MSL
		B TOP OF CASING ELEVATION	5340.23 FT.-MSL
TYPE OF WELL	Monitoring Well	**NORTHING**	1248619.83 FEET
PERMIT NO.	NOI 052829-MH	**EASTING**	3062385.44 FEET
CASING DIAMETER	2 INCHES	**DATE DRILLED**	9/5/14
BORING DIAMETER	8 INCHES	**DATE INSTALLED**	9/5/14



C	**STICK-UP :**	GROUND	N/A	T.O.C	N/A	INTERVAL	N/A	FEET
D	**SURFACE SEAL :**	BOT.	0.5	TOP	0	INTERVAL	0.5	FEET
	Material Type/ Quantity:	Concrete						
E	**CONDUCTOR**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
E1	Material Type:	N/A						
E2	Boring Diameter:	N/A	inches					
E3	Casing Diameter:	N/A	inches					
F	**INTERMEDIATE SEAL:**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
	Material Type/ Quantity:	N/A						
G	**BLANK CASING:**	BOT.	8.24	TOP	0.53	INTERVAL	7.71	FEET
H	**BENTONITE SEAL:**	BOT.	6.5	TOP	0.5	INTERVAL	6.0	FEET
	Material Type/ Quantity:	Medium bentonite chips						
I	**BLANK SCREEN TO TOP SLOT**	BOT.	8.40	TOP	8.24	INTERVAL	0.16	FEET
J	**FILTER PACK:**	BOT.	18.51	TOP	6.5	INTERVAL	12.01	FEET
	Material Type/ Quantity:	Silica Sand 10/20						
K	**SCREEN INTERVAL:**	BOT.	17.98	TOP	8.40	INTERVAL	9.58	FEET
	Slot Size & Type:	0.01	PVC					
L	**BLANK SCREEN TO BOTTOM SLOT**						0.30	FEET
M	**CAP LENGTH**						0.23	FEET
N	**BASE OF WELL CASING AT:**						18.51	FEET
O	**TOTAL CASING LENGTH:** (Note: ADD: M +L +K+ I + G)						17.98	FEET
P	**BACKFILL MATERIAL:**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
	Material Type/ Quantity:	N/A						
Q	**TOTAL BORING DEPTH:**						18.51	FEET

DRILLED BY: Site Services
LOGGED BY: A. Stone
DRILLING METHOD **H.S.A** [X] **ROTARY** [ ]
Stratex [ ] **ODEX** [ ]
SAMPLER TYPE & DIMENSIONS
2"x24" SPT

MAP OF WELL LOCATION OF GENERAL NOTES:

I hearby certify that the information on this form is true and correct to the best of my knowledge

SIGNATURE

FIRM
USA Environment, LP

PROJECT: **City of Boulder - 13th Street Plaza**		BORING ID: **B-12**
LOCATION: **1770 13th Street, Boulder, Colorado**		WELL ID: **MW-12**
NORTHING (ft):	EASTING (ft):	WELL CONSTRUCTION DETAILS
LOGGED BY: **AHS**	DEPTH TO WATER (ft bgs): ▽ = 11.0 ▼ = 10.11	TOTAL DEPTH (ft bgs): **Drill: 15.0** **Sample: 17.0**
DATE STARTED: **9/4/14**	GROUND SURFACE ELEV. (ft MSL):	TOC ELEVATION (ft MSL):
DATE COMPLETED: **9/4/14**	BORING DIAMETER (inches): **8**	CASING DIAMETER (inches): **2**

Total Casing Length (ft): ____ Slot Size (in): 0.01 Sand Size: 10/20

Surface Seal (ft bgs): ____ to ____ Type: concrete

Bentonite Seal (ft bgs): ____ to 3 Type: medium chips

Filter Pack Interval (ft bgs): 3 to 15.43

Screen Interval (ft bgs): 5.33 to 14.93

Notes: Surface completion to be determined.

Depth (feet)	Sample Run (ft)	Sample Recovery (ft)	Density (blows/ft)	PID (ppm)	Sample Type	Saturation (Dry / Moist / Wet)	Bedrock Fracture Intensity (Massive (>3ft) / Slightly (1-3ft) / Moderately (.5-1ft) / Intensely (.1-.5ft) / Crushed (<0.1ft))	USCS Symbol	Lithographic Column	SOIL/ROCK DESCRIPTION
0–2.5								CL		0.0 - 2.5 ft; CLAY (CL); medium-plasticity fines; ~5-10% fine sand. (as observed in drill cuttings) (FILL)
2.5–5								CL		2.5 - 15.5 ft; SANDY CLAY (CL); medium stiff; mottled yellow-brown and reddish brown; medium-plasticity fines ~25-35% fine sand; trace gravel; maximum 1 inch diameter; moist. (FILL)
5–7	2	2	1, 1, 1, 4	1.4	S1			CL		
7–10								CL		
10–12	2	2	2, 2, 2, 2	0.6	S2		▼ ▽	CL		@ 10.0 -12.0 ft; Laboratory sample collected. (Sample ID: COB_MW12_090414) @ 11.0 ft; soft; moist to wet.
12–15								CL		
15–16.75	2	2	5, 5, 7, 5	99.7	S3			SW		15.5 - 16.75 ft; SAND (SW); medium dense; fine to coarse sand; ~5% fines; well graded; strong hydrocarbon odor; sheen; product; wet.
16.75–17.0								SH		**BEDROCK:** 16.75 - 17.0 ft; Shale (SH); Pierre Shale.

Drilled to 15.0 feet. Sampled to 17.0 feet.

NOTES: ▼ = static water level in completed well ▽ = water first encountered during drilling

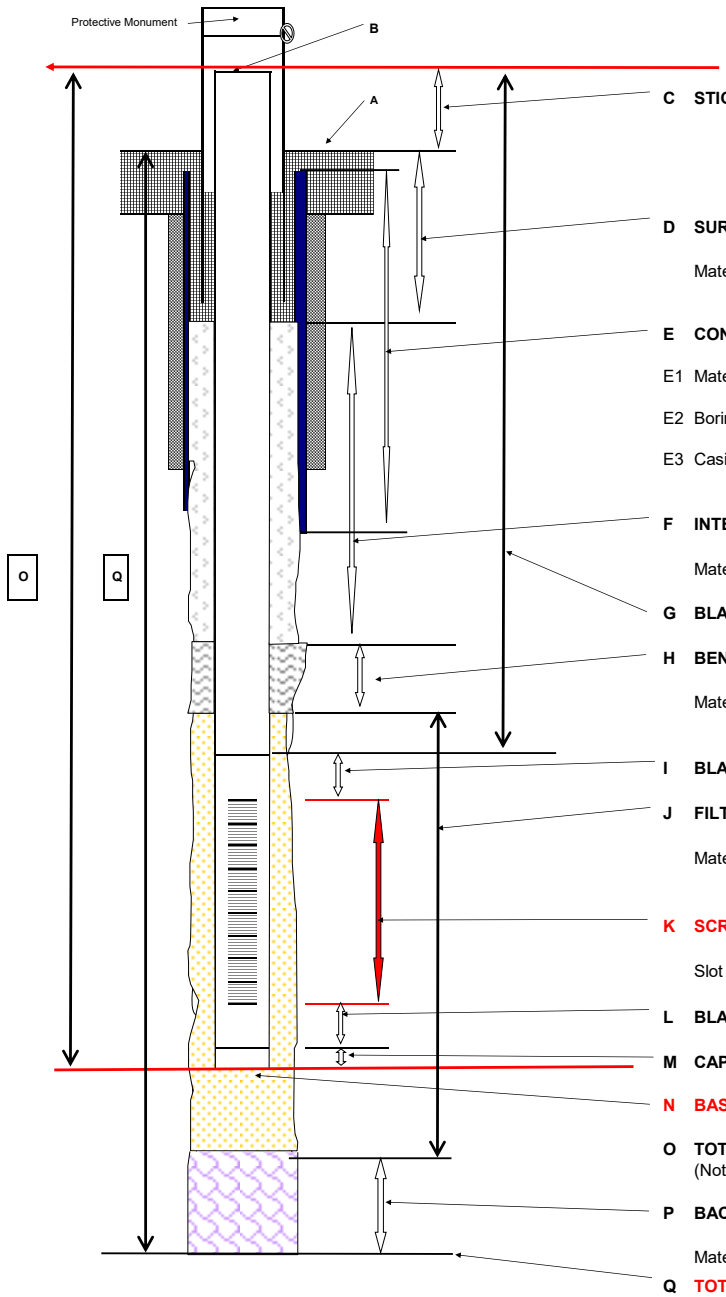
Privileged and Confidential
Attorney-Client Communication

DRILLING CONTRACTOR: Site Services Inc. DRILLING METHOD: Hollow Stem Auger

DRILLING EQUIPMENT: CME 75 SAMPLING METHOD: 2" SPT

MONITORING WELL CONSTRUCTION DETAILS

FACILITY/PROJECT NAME:	13th Street Plaza	**WELL NAME/ID:**	MW-12
LOCATION	1770 13th Street Plaza Boulder, CO	**A GROUND SURFACE ELEVATION**	5339.21 FT.-MSL
		B TOP OF CASING ELEVATION	5341.21 FT.-MSL
TYPE OF WELL	Monitoring Well	**NORTHING**	1248630.29 FEET
PERMIT NO.	NOI 052829-MH	**EASTING**	3062429.31 FEET
CASING DIAMETER	2 INCHES	**DATE DRILLED**	9/4/14
BORING DIAMETER	8 INCHES	**DATE INSTALLED**	9/4/14



C	**STICK-UP :**	GROUND	N/A	T.O.C	N/A	INTERVAL	N/A	FEET
D	**SURFACE SEAL :**	BOT.	TBD	TOP	TBD	INTERVAL	TBD	FEET
	Material Type/ Quantity:	-						
E	**CONDUCTOR**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
E1	Material Type:	N/A						
E2	Boring Diameter:	N/A	inches					
E3	Casing Diameter:	N/A	inches					
F	**INTERMEDIATE SEAL:**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
	Material Type/ Quantity:	N/A						
G	**BLANK CASING:**	BOT.	5.04	TOP	TBD	INTERVAL	TBD	FEET
H	**BENTONITE SEAL:**	BOT.	3.0	TOP	TBD	INTERVAL	TBD	FEET
	Material Type/ Quantity:	Medium bentonite chips						
I	**BLANK SCREEN TO TOP SLOT**	BOT.	5.33	TOP	5.04	INTERVAL	0.29	FEET
J	**FILTER PACK:**	BOT.	15.43	TOP	3.0	INTERVAL	12.43	FEET
	Material Type/ Quantity:	Silica Sand 10/20						
K	**SCREEN INTERVAL:**	BOT.	14.93	TOP	5.33	INTERVAL	9.6	FEET
	Slot Size & Type:	0.01	PVC					
L	**BLANK SCREEN TO BOTTOM SLOT**						0.15	FEET
M	**CAP LENGTH**						0.35	FEET
N	**BASE OF WELL CASING AT:**						15.43	FEET
O	**TOTAL CASING LENGTH:** (Note: ADD: M +L +K+ I + G)						TBD	FEET
P	**BACKFILL MATERIAL:**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
	Material Type/ Quantity:	N/A						
Q	**TOTAL BORING DEPTH:**						15.43	FEET

DRILLED BY: Site Services
LOGGED BY: A. Stone
DRILLING METHOD H.S.A [X] ROTARY [ ]
Stratex [ ] ODEX [ ]
SAMPLER TYPE & DIMENSIONS
2"x24" SPT

MAP OF WELL LOCATION OF GENERAL NOTES:
* Well construction not completed at surface due to other work activities in the area. Final construction to be determined.

I hearby certify that the information on this form is true and correct to the best of my knowledge

SIGNATURE

FIRM
USA Environment, LP

USA ENVIRONMENT, L.P. — A Full Service Environmental Company	PROJECT: **City of Boulder - 13th Street Plaza**	BORING ID: **B-13**
	LOCATION: **1770 13th Street, Boulder, Colorado**	WELL ID: **MW-13**
	NORTHING (ft):	EASTING (ft):
LOGGED BY: **AHS**	DEPTH TO WATER (ft bgs): ▽ = 8.0 ▼ = 5.0	TOTAL DEPTH (ft bgs): **Drill: 15.0 Slough: 13.69 Sample: 17.0**
DATE STARTED: **9/5/14**	GROUND SURFACE ELEV. (ft MSL):	TOC ELEVATION (ft MSL):
DATE COMPLETED: **9/5/14**	BORING DIAMETER (inches): **8**	CASING DIAMETER (inches): **2**

WELL CONSTRUCTION DETAILS

Total Casing Length (ft): 13.4 Slot Size (in): 0.01 Sand Size: 10/20

Surface Seal (ft bgs): 0 to 0.5 Type: concrete

Bentonite Seal (ft bgs): 0.5 to 3 Type: medium chips

Filter Pack Interval (ft bgs): 3 to 13.96

Screen Interval (ft bgs): 3.84 to 13.44

Notes:

Depth (feet)	Sample Run (ft)	Sample Recovery (ft)	Density (blows/ft)	PID (ppm)	Sample Type	Saturation (Dry / Moist / Wet)	Bedrock Fracture Intensity (Massive (>3ft) / Slightly (1-3ft) / Moderately (.5-1ft) / Intensely (.1-.5ft) / Crushed (<0.1ft))	USCS Symbol	Lithographic Column	SOIL/ROCK DESCRIPTION
0										0.0 - 0.35 ft; ASPHALT
1								CL		0.35 - 1.5 ft; SANDY CLAY (CL); brown; medium-plasticity fines; ~35-45% fine to coarse sand; moist. (as observed in hand auger cuttings)
2								SC		1.5 - 5.0 ft; CLAYEY SAND (SC); brown; fine to coarse sand; fine to medium gravel; moist. (as observed in drill cuttings)
3										
4										
5	2	1.6	12, 17, 18, 20		S1		▼	SW		5.0 - 17.0 ft; SAND (SW); dense; reddish brown; fine to course sand; well graded; ~20-25% gravel; maximum 1.5 inch diameter; ~5-10% fines; moist.
6										
7										
8							▽			@ 8.0 ft; wet.
9										
10	2	2	10, 11, 14, 44		S2					@ 10.0 - 12.0 ft; Laboratory sample collected. (Sample ID: COB_MW13_090514)
11										
12										
13										@ 13.0 ft; hard drilling; 2-3 inch cobbles in cuttings.
14										@ 14.5 ft; easier drilling; sand and gravel in cuttings.
15	2	1.1	14, 30, 29, 11		S3					@ 15.5 ft; dense.
16										
17										Drilled to 15.0 feet. Sampled to 17.0 feet. Flowing sands, well set at 13.96 feet.
18										
19										
20										

NOTES: ▼ = static water level in completed well ▽ = water first encountered during drilling

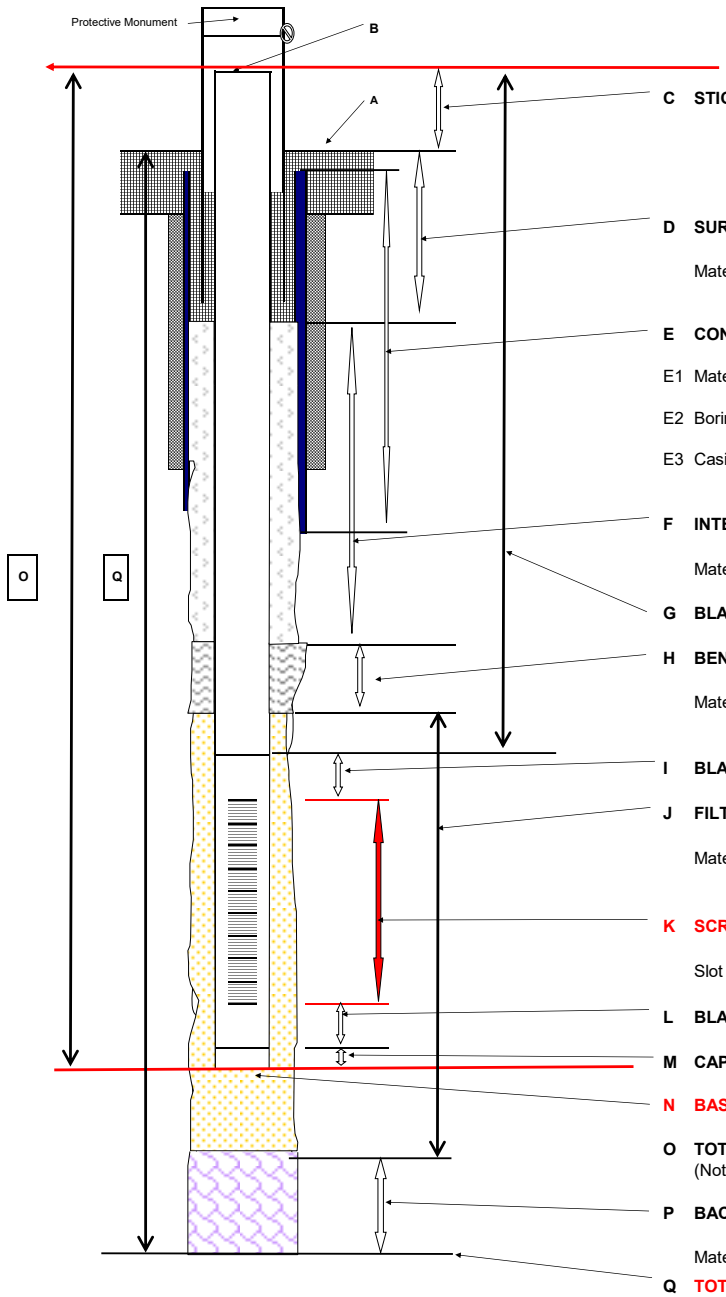
Privileged and Confidential Attorney-Client Communication

DRILLING CONTRACTOR: Site Services Inc. DRILLING METHOD: Hollow Stem Auger

DRILLING EQUIPMENT: CME 75 SAMPLING METHOD: 2" SPT

MONITORING WELL CONSTRUCTION DETAILS

FACILITY/PROJECT NAME:	13th Street Plaza	**WELL NAME/ID:**	MW-13
LOCATION	1770 13th Street Plaza Boulder, CO	**A GROUND SURFACE ELEVATION**	5337.02 FT.-MSL
		B TOP OF CASING ELEVATION	5336.55 FT.-MSL
TYPE OF WELL	Monitoring Well	**NORTHING**	1248523.13 FEET
PERMIT NO.	NOI 052829-MH	**EASTING**	3062591.59 FEET
CASING DIAMETER	2 INCHES	**DATE DRILLED**	9/5/14
BORING DIAMETER	8 INCHES	**DATE INSTALLED**	9/5/14



C STICK-UP : GROUND N/A T.O.C N/A INTERVAL N/A FEET

D SURFACE SEAL : BOT. 0.7 TOP 0 INTERVAL 0.5 FEET

Material Type/ Quantity: Concrete

E CONDUCTOR BOT. N/A TOP N/A INTERVAL N/A FEET

E1 Material Type: N/A

E2 Boring Diameter: N/A inches

E3 Casing Diameter: N/A inches

F INTERMEDIATE SEAL: BOT. N/A TOP N/A INTERVAL N/A FEET

Material Type/ Quantity: N/A

G BLANK CASING: BOT. 3.69 TOP 0.47 INTERVAL 3.22 FEET

H BENTONITE SEAL: BOT. 3.0 TOP 0.7 INTERVAL 2.5 FEET

Material Type/ Quantity: Medium bentonite chips

I BLANK SCREEN TO TOP SLOT BOT. 3.84 TOP 3.69 INTERVAL 0.15 FEET

J FILTER PACK: BOT. 13.96 TOP 3.0 INTERVAL 10.96 FEET

Material Type/ Quantity: Silica Sand 10/20

K SCREEN INTERVAL: BOT. 13.44 TOP 3.84 INTERVAL 9.6 FEET

Slot Size & Type: 0.01 PVC

L BLANK SCREEN TO BOTTOM SLOT 0.29 FEET

M CAP LENGTH 0.23 FEET

N BASE OF WELL CASING AT: 13.96 FEET

O TOTAL CASING LENGTH: 13.49 FEET
(Note: ADD: M +L +K+ I + G)

P BACKFILL MATERIAL: BOT. 15.0 TOP 13.96 INTERVAL 1.04 FEET

Material Type/ Quantity: flowing sand (slough)

Q TOTAL BORING DEPTH: 15.0 FEET

DRILLED BY: Site Services
LOGGED BY: A. Stone
DRILLING METHOD H.S.A [X] ROTARY [ ]
Stratex [ ] ODEX [ ]
SAMPLER TYPE & DIMENSIONS
2"x24" SPT

MAP OF WELL LOCATION OF GENERAL NOTES:

I hearby certify that the information on this form is true and correct to the best of my knowledge

SIGNATURE

FIRM
USA Environment, LP

PROJECT: **City of Boulder - 13th Street Plaza**		BORING ID: **MW-14**
LOCATION: **1770 13th Street, Boulder, Colorado**		WELL ID: **MW-14**
NORTHING (ft): **1248562.08**	EASTING (ft): **3062325.95**	WELL CONSTRUCTION DETAILS
LOGGED BY: **AHS**	DEPTH TO WATER (ft bgs): ▽ = 10.5 ▼ = 10.66	TOTAL DEPTH (ft bgs): **Drill: 18.2** **Sample: 19.0**
DATE STARTED: **2/19/15**	GROUND SURFACE ELEV. (ft MSL): **5341.76**	TOC ELEVATION (ft MSL): **5341.56**
DATE COMPLETED: **2/19/15**	BORING DIAMETER (inches): **8**	CASING DIAMETER (inches): **2**

Total Casing Length (ft): 18 Slot Size (in): 0.01 Sand Size: 10/20

Surface Seal (ft bgs): 0 to 1.1 Type: concrete

Bentonite Seal (ft bgs): 4 to 6 Type: bentonite crumbles

Filter Pack Interval (ft bgs): 6 to 18.2

Screen Interval (ft bgs): 8.14 to 17.63

Notes: See Monitoring Well Construction Detail Log

Depth (feet)	Sample Run (ft)	Sample Recovery (ft)	Density (blows/ft)	PID (ppm)	Sample Type	USCS Symbol	SOIL/ROCK DESCRIPTION
0							0.0 - 0.65 ft: CONCRETE
1–4						SM/SC	0.65 - 4.3 ft: Pot Holed (water knife/vacuum); OBSERVED CUTTINGS: SILTY SAND and CLAYEY SAND (SM/SC): trace gravel, cobbles, boulders. (max 10-11 inches) (FILL) @ 4.0 ft: DPT sample tooling to begin sampling.
4–8	5	2.9		0.2, 9.5, 16.8	DPT	SM	4.3 - 8.5 ft: SILTY SAND with GRAVEL (SM): brown; fine to coarse sand; ~15-25% non to low plasticity fines; moist. @ 8.0 ft; hard drilling; chatter (cobble/boulder). @ 8.0 - 9.0 ft; Laboratory sample collected. (Sample ID: COB_MW14_021915)
9–14	5	2.9		0.4, 0.1, 0.2	DPT	GP	8.5 - 16.3 ft: NARROWLY GRADED GRAVEL (GP): loose to medium dense; fine gravel, ~35-45% medium to coarse sand; ~10% fines. @ 10.5 ft: increasing gravel (max 1.5 inches); wet. @ 11.0 ft: easier drilling.
14–17	5	3.9		0.4, 0.2, 0.3, 30.7	DPT	SP	16.3 - 17.3 ft: NARROWLY GRADED SAND (SP): loose; olive brown; fine to medium sand; ~5-15% fines; wet.
17–19						CL	17.3 - 19.0 ft: CLAY (CL): soft to medium stiff; orange-brown; mostly medium plastic fines; ~15-25% fine sand; moist. @ 18.0 - 19.0 ft: medium stiff; gray brown; increasing silt content; trace medium gravel.
19–20							Drilled to 15.0 feet. Sampled to 17.0 feet.

Saturation: Dry, Moist, Wet

Bedrock Fracture Intensity: Massive (>3ft), Slightly (1-3ft), Moderately (.5-1ft), Intensely (.1-.5ft), Crushed (<0.1ft)

NOTES: ▼ = static water level in completed well ▽ = water first encountered during drilling

Privileged and Confidential
Attorney-Client Communication

DRILLING CONTRACTOR: Site Services Inc.

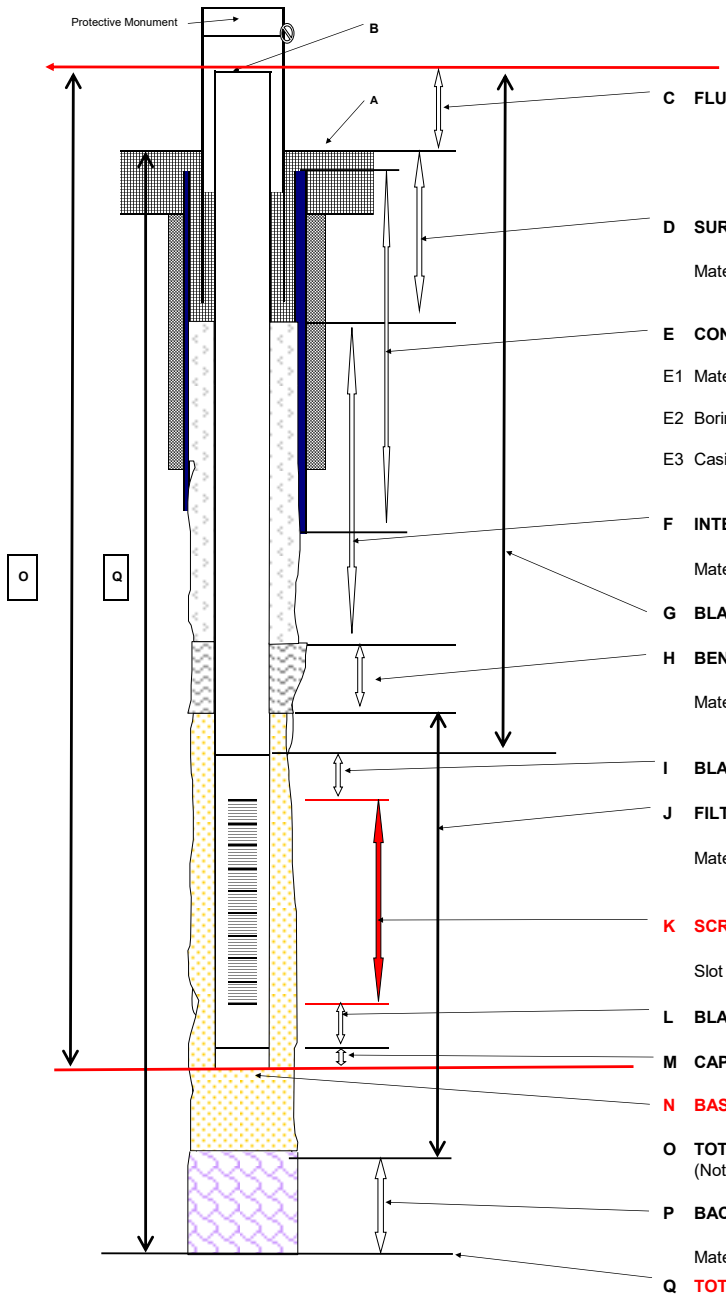
DRILLING EQUIPMENT: 7730 DT

DRILLING METHOD: Hollow Stem Auger

SAMPLING METHOD: Continuous 2" DPT

MONITORING WELL CONSTRUCTION DETAILS

FACILITY/PROJECT NAME:	13th Street Plaza	**WELL NAME/ID:**	MW-14
LOCATION	1770 13th Street Plaza Boulder, CO	**A GROUND SURFACE ELEVATION**	5341.76 FT.-MSL
		B TOP OF CASING ELEVATION	5341.56 FT.-MSL
TYPE OF WELL	Monitoring Well	**NORTHING**	1248562.08 FEET
PERMIT NO.	MH-053296	**EASTING**	3062325.95 FEET
CASING DIAMETER	2 INCHES	**DATE DRILLED**	2/19/15
BORING DIAMETER	8 INCHES	**DATE INSTALLED**	2/19/15



C FLUSH MOUNT : GROUND N/A T.O.C N/A INTERVAL N/A FEET

D SURFACE SEAL : BOT. 1.10 TOP 0 INTERVAL 1.1 FEET

Material Type/ Quantity: Concrete

E CONDUCTOR BOT. N/A TOP N/A INTERVAL N/A FEET

E1 Material Type: N/A

E2 Boring Diameter: N/A inches

E3 Casing Diameter: N/A inches

F INTERMEDIATE SEAL: BOT. 4 TOP 1.1 INTERVAL 2.90 FEET

Material Type/ Quantity: Medium Bentonite Chips

G BLANK CASING: BOT. 7.93 TOP 0.20 INTERVAL 7.73 FEET

H BENTONITE SEAL: BOT. 6.0 TOP 4.0 INTERVAL 2.0 FEET

Material Type/ Quantity: Bentonite crumbles (#8)

I BLANK SCREEN TO TOP SLOT BOT. 8.14 TOP 7.93 INTERVAL 0.21 FEET

J FILTER PACK: BOT. 18.20 TOP 6.0 INTERVAL 12.20 FEET

Material Type/ Quantity: Silica Sand 10/20

K SCREEN INTERVAL: BOT. 17.63 TOP 8.14 INTERVAL 9.49 FEET

Slot Size & Type: 0.01 PVC

L BLANK SCREEN TO BOTTOM SLOT 0.34 FEET

M CAP LENGTH 0.23 FEET

N BASE OF WELL CASING AT: 18.20 FEET

O TOTAL CASING LENGTH: 18.00 FEET
(Note: ADD: M +L +K+ I + G)

P BACKFILL MATERIAL: BOT. N/A TOP N/A INTERVAL N/A FEET

Material Type/ Quantity: N/A

Q TOTAL BORING DEPTH: 18.20 FEET

DRILLED BY: Site Services
LOGGED BY: A. Stone
DRILLING METHOD H.S.A [X] ROTARY [ ]
Stratex [ ] ODEX [ ]
SAMPLER TYPE & DIMENSIONS
2" DPT

MAP OF WELL LOCATION OF GENERAL NOTES:

I hearby certify that the information on this form is true and correct to the best of my knowledge

SIGNATURE

FIRM
USA Environment, LP

PROJECT: **City of Boulder - 13th Street Plaza**		BORING ID: **MW-15**
LOCATION: **1770 13th Street, Boulder, Colorado**		WELL ID: **MW-15**
NORTHING (ft): **1248575.11**	EASTING (ft): **3062354.08**	WELL CONSTRUCTION DETAILS
LOGGED BY: **AHS**	DEPTH TO WATER (ft bgs): ▽ = 10.0 ▼ = 10.24	TOTAL DEPTH (ft bgs): **Drill: 18.18** **Sample: 18.0**
DATE STARTED: **2/19/15**	GROUND SURFACE ELEV. (ft MSL): **5341.4**	TOC ELEVATION (ft MSL): **5341.09**
DATE COMPLETED: **2/20/15**	BORING DIAMETER (inches): **8**	CASING DIAMETER (inches): **2**

Total Casing Length (ft): 17.85 Slot Size (in): 0.01 Sand Size: 10/20

Surface Seal (ft bgs): 0 to 0.9 Type: concrete

Bentonite Seal (ft bgs): 4 to 6 Type: bentonite crumbles

Filter Pack Interval (ft bgs): 6 to 18.18

Screen Interval (ft bgs): 8.14 to 17.63

Notes: See Monitoring Well Construction Detail Log

Depth (feet)	Sample Run (ft)	Sample Recovery (ft)	Density (blows/ft)	PID (ppm)	Sample Type	USCS Symbol	SOIL/ROCK DESCRIPTION
0							0.0 - 0.6 ft: CONCRETE
1–4						SC/SM	0.6 - 4.8 ft: Pot Holed (water knife/vacuum): OBSERVED CUTTINGS: CLAYEY SAND and SILTY SAND (SC/SM): trace gravel, cobbles, brick. (FILL)
5–9	5	1.9		1, 217, 313	DPT	SM	4.8 - 9.0 ft: SILTY SAND with GRAVEL (SM): dark reddish brown; fine to coarse sand; ~25-30% non to low plasticity fines; ~15 gravel (max 1 inch); moist. @ 8.0 - 9.0 ft: hydrocarbon odor and staining. @ 8.0 - 10.0 ft: Laboratory sample collected. (Sample ID: COB_MW15_021915)
9–15	5	1.5		14.1, 3.8	DPT	GP/GW	9.0 - 15.0 ft: GRAVEL with SILTY SAND (GP/GW): loose to medium dense; gray to red/orange brown; mostly fine to coarse gravel (max 1.5 inch); ~45% fine to coarse sand; ~15% fines; moist to wet.
15–17	3	2		3.1, 8.1	DPT	SW	15.0 - 17.0 ft: WIDELY GRADED SAND (SP): loose; fine to coarse sand; ~30-35% fine to medium gravel (max 1.5 inch); ~15-20% fines; wet. @ 16.0 - 17.0 ft: increasing fines; ~20-30% low plasticity fines.
17–18						CL	17.0 - 18.0 ft: CLAY (CL): soft to medium stiff; orange brown; medium plasticity fines; ~15-25% fine sand; moist to wet.

Saturation: Dry, Moist, Wet

Bedrock Fracture Intensity: Massive (>3ft), Slightly (1-3ft), Moderately (.5-1ft), Intensely (.1-.5ft), Crushed (<0.1ft)

Lithographic Column

NOTES: ▼ = static water level in completed well ▽ = water first encountered during drilling

Privileged and Confidential Attorney-Client Communication

DRILLING CONTRACTOR: Site Services Inc.

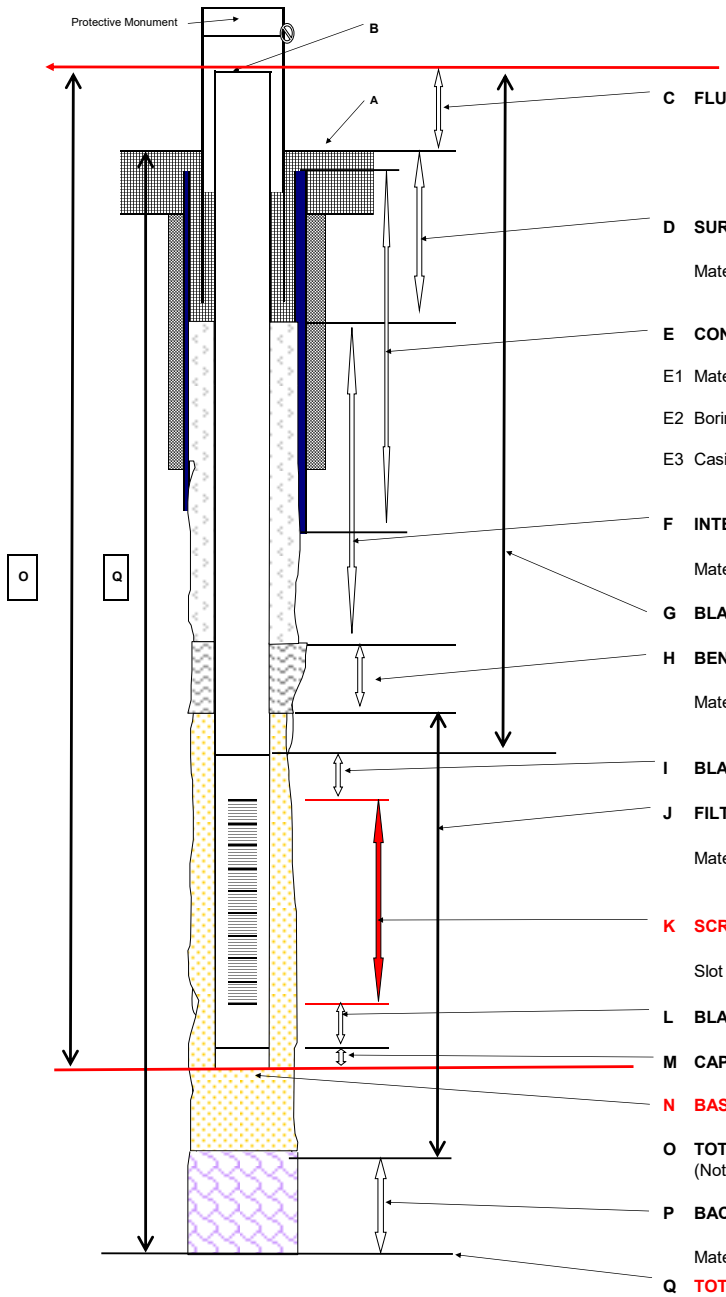
DRILLING EQUIPMENT: 7730 DT/CME 75

DRILLING METHOD: Hollow Stem Auger

SAMPLING METHOD: Continuous 2" DPT

MONITORING WELL CONSTRUCTION DETAILS

FACILITY/PROJECT NAME:	13th Street Plaza	**WELL NAME/ID:**	MW-15
LOCATION	1770 13th Street Plaza Boulder, CO	**A GROUND SURFACE ELEVATION**	5341.40 FT.-MSL
		B TOP OF CASING ELEVATION	5341.09 FT.-MSL
TYPE OF WELL	Monitoring Well	**NORTHING**	1248575.11 FEET
PERMIT NO.	MH-053296	**EASTING**	3062354.08 FEET
CASING DIAMETER	2 INCHES	**DATE DRILLED**	2/19/15
BORING DIAMETER	8 INCHES	**DATE INSTALLED**	2/20/15



C	**FLUSH MOUNT:**	GROUND	N/A	T.O.C	N/A	INTERVAL	N/A	FEET
D	**SURFACE SEAL :**	BOT.	0.9	TOP	0.0	INTERVAL	0.9	FEET
	Material Type/ Quantity:	Concrete						
E	**CONDUCTOR**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
E1	Material Type:	N/A						
E2	Boring Diameter:	N/A	inches					
E3	Casing Diameter:	N/A	inches					
F	**INTERMEDIATE SEAL:**	BOT.	4	TOP	0.9	INTERVAL	3.1	FEET
	Material Type/ Quantity:	Medium Bentonite Chips						
G	**BLANK CASING:**	BOT.	7.79	TOP	0.31	INTERVAL	7.48	FEET
H	**BENTONITE SEAL:**	BOT.	6.0	TOP	4.0	INTERVAL	2.0	FEET
	Material Type/ Quantity:	Bentonite crumbles (#8)						
I	**BLANK SCREEN TO TOP SLOT**	BOT.	8.14	TOP	7.79	INTERVAL	0.35	FEET
J	**FILTER PACK:**	BOT.	18.18	TOP	6.0	INTERVAL	12.18	FEET
	Material Type/ Quantity:	Silica Sand 10/20						
K	**SCREEN INTERVAL:**	BOT.	17.63	TOP	8.14	INTERVAL	9.49	FEET
	Slot Size & Type:	0.01	PVC					
L	**BLANK SCREEN TO BOTTOM SLOT**						0.20	FEET
M	**CAP LENGTH**						0.35	FEET
N	**BASE OF WELL CASING AT:**						18.18	FEET
O	**TOTAL CASING LENGTH:** (Note: ADD: M +L +K+ I + G)						17.87	FEET
P	**BACKFILL MATERIAL:**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
	Material Type/ Quantity:	N/A						
Q	**TOTAL BORING DEPTH:**						18.18	FEET

DRILLED BY: Site Services
LOGGED BY: A. Stone
DRILLING METHOD **H.S.A** [X] **ROTARY** [ ]
Stratex [ ] **ODEX** [ ]
SAMPLER TYPE & DIMENSIONS
2" DPT

MAP OF WELL LOCATION OF GENERAL NOTES:

I hearby certify that the information on this form is true and correct to the best of my knowledge

SIGNATURE

FIRM
USA Environment, LP

PROJECT: **City of Boulder - 13th Street Plaza**		BORING ID: **MW-16**
LOCATION: **1770 13th Street, Boulder, Colorado**		WELL ID: **MW-16**
NORTHING (ft): **1248605.64**	EASTING (ft): **3062445.72**	WELL CONSTRUCTION DETAILS
LOGGED BY: **AHS**	DEPTH TO WATER (ft bgs): ▽ = 9.0 ▼ = 8.27	TOTAL DEPTH (ft bgs): **Drill/Sample: 14.50**
DATE STARTED: **2/20/15**	GROUND SURFACE ELEV. (ft MSL): **5338.91**	TOC ELEVATION (ft MSL): **5338.62**
DATE COMPLETED: **2/20/15**	BORING DIAMETER (inches): **8**	CASING DIAMETER (inches): **2**

Total Casing Length (ft): 13.7 Slot Size (in): 0.01 Sand Size: 10/20

Surface Seal (ft bgs): 0 to 0.5 Type: concrete

Bentonite Seal (ft bgs): 0.5 to 3 Type: medium chips

Filter Pack Interval (ft bgs): 3 to 13.99

Screen Interval (ft bgs): 3.92 to 13.43

Notes: See Monitoring Well Construction Detail Log

Depth (feet)	Sample Run (ft)	Sample Recovery (ft)	Density (blows/ft)	PID (ppm)	Sample Type	Saturation (Dry / Moist / Wet)	Bedrock Fracture Intensity (Massive (>3ft) / Slightly (1-3ft) / Moderately (.5-1ft) / Intensely (.1-.5ft) / Crushed (<0.1ft))	USCS Symbol	SOIL/ROCK DESCRIPTION
0–3								SM	0.0 - 0.4 ft: CONCRETE 0.4 - 3.0 ft: Pot Holed (water knife/vacuum): OBSERVED CUTTINGS: SILTY SAND (SM): cobbles, gravel, brick. (FILL)
3–9	6	1.8		0.1 0.6	CSB	Wet	▽ Slightly (1-3ft) ▼	GW	3.0 - 14.5 ft: WIDELY GRADED GRAVEL with SILTY SAND (GW): loose to medium dense; gray brown; mostly fine to coarse gravel (max 3 inches); angular to sub-angular, sub-rounded; ~35-40% fine to coarse sand; angular to sub-angular; ~20-30% fines; moist. @ 7.0 - 9.0 ft: Laboratory sample collected. (Sample IDs: COB_MW16_022015; COB_FieldDup_022015) @ 9.0 ft: wet.
9–14	4.5	1.2		102 97.1	CSB	Wet		GW	@ 12.0 ft: hydrocarbon odor and sheen observed on water, gravel, and sand grains.
14	1	1		128	CSB	Wet		GW	@ 14.5 ft: refusal; hard drilling.

Drilled to 14.5 feet.
Flowing sands in bottom of augers, well set at 13.99 feet.

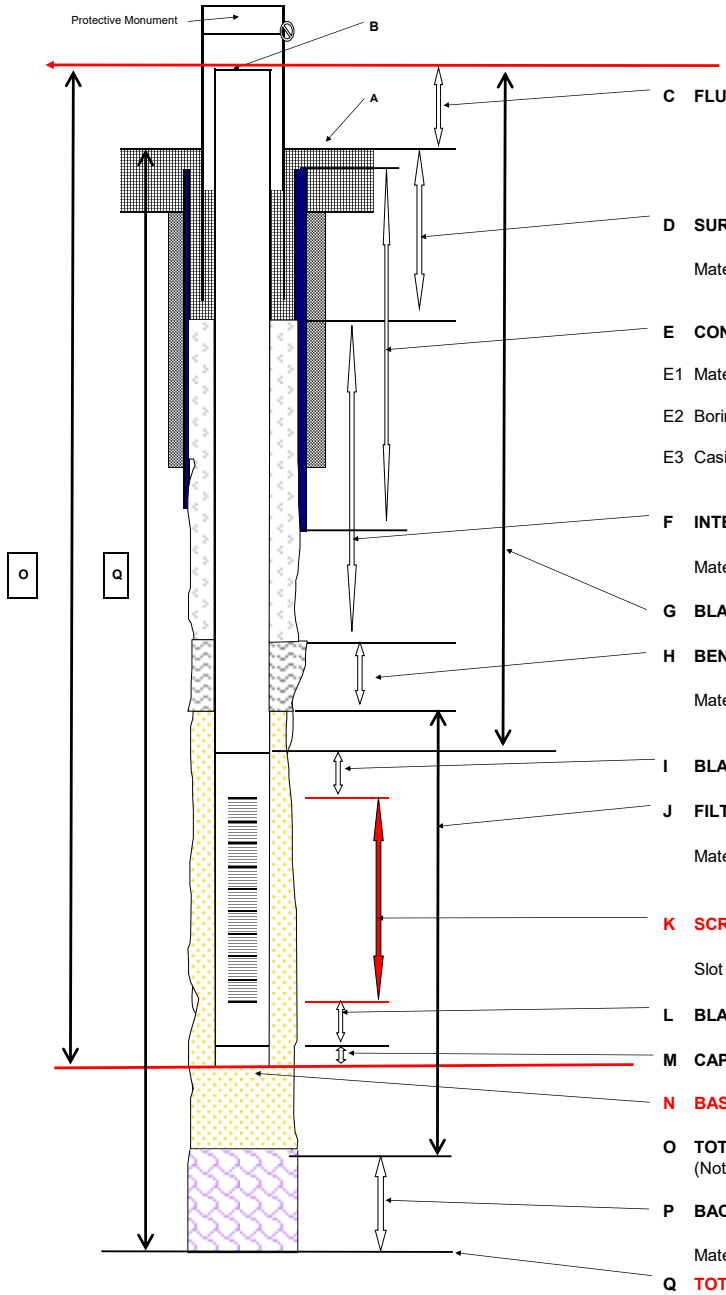
NOTES: ▼ = static water level in completed well ▽ = water first encountered during drilling

Privileged and Confidential
Attorney-Client Communication

DRILLING CONTRACTOR: Site Services Inc.
DRILLING EQUIPMENT: CME 75
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: 4" Continuous Split Barrel (CSB)

MONITORING WELL CONSTRUCTION DETAILS

FACILITY/PROJECT NAME:	13th Street Plaza	**WELL NAME/ID:**	MW-16
LOCATION	1770 13th Street Plaza Boulder, CO	**A GROUND SURFACE ELEVATION**	5338.91 FT.-MSL
		B TOP OF CASING ELEVATION	5338.62 FT.-MSL
TYPE OF WELL	Monitoring Well	**NORTHING**	1248605.64 FEET
PERMIT NO.	MH-053296	**EASTING**	3062445.72 FEET
CASING DIAMETER	2 INCHES	**DATE DRILLED**	2/20/15
BORING DIAMETER	8 INCHES	**DATE INSTALLED**	2/20/15



C	**FLUSH MOUNT:**	GROUND	N/A	T.O.C	N/A	INTERVAL	N/A	FEET
D	**SURFACE SEAL :**	BOT.	0.5	TOP	0.0	INTERVAL	0.5	FEET
	Material Type/ Quantity:	Concrete						
E	**CONDUCTOR**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
E1	Material Type:	N/A						
E2	Boring Diameter:	N/A	inches					
E3	Casing Diameter:	N/A	inches					
F	**INTERMEDIATE SEAL:**	BOT.	2	TOP	0.5	INTERVAL	1.5	FEET
	Material Type/ Quantity:	Medium Bentonite Chips/Sand						
G	**BLANK CASING:**	BOT.	3.72	TOP	0.29	INTERVAL	3.43	FEET
H	**BENTONITE SEAL:**	BOT.	3.0	TOP	2.0	INTERVAL	1.0	FEET
	Material Type/ Quantity:	Bentonite crumbles (#8)						
I	**BLANK SCREEN TO TOP SLOT**	BOT.	3.92	TOP	3.72	INTERVAL	0.22	FEET
J	**FILTER PACK:**	BOT.	13.99	TOP	3.0	INTERVAL	10.99	FEET
	Material Type/ Quantity:	Silica Sand 10/20						
K	**SCREEN INTERVAL:**	BOT.	13.43	TOP	3.92	INTERVAL	9.49	FEET
	Slot Size & Type:	0.01	PVC					
L	**BLANK SCREEN TO BOTTOM SLOT**						0.33	FEET
M	**CAP LENGTH**						0.23	FEET
N	**BASE OF WELL CASING AT:**						13.99	FEET
O	**TOTAL CASING LENGTH:** (Note: ADD: M +L +K+ I + G)						13.70	FEET
P	**BACKFILL MATERIAL:**	BOT.	N/A	TOP	N/A	INTERVAL	N/A	FEET
	Material Type/ Quantity:	N/A						
Q	**TOTAL BORING DEPTH:**						13.99	FEET

DRILLED BY: Site Services
LOGGED BY: A. Stone
DRILLING METHOD **H.S.A** [X] **ROTARY** [ ]
Stratex [ ] **ODEX** [ ]
SAMPLER TYPE & DIMENSIONS
4" Continuous

MAP OF WELL LOCATION OF GENERAL NOTES:

I hearby certify that the information on this form is true and correct to the best of my knowledge

SIGNATURE

FIRM
USA Environment, LP

MONITORING WELL DEVELOPMENT LOG

USA ENVIRONMENT, L.P.
A Full Service Environmental Company

Date: 9/5/14	Weather: 70s, Lt Rain
Well ID: MW-3R	Project No: 5047-RC-C100
Field Personnel: CMetz	Subcontractor: NA

Well Summary:
Depth to NAPL: NA
Initial Total Depth: 16.60
Initial Depth to Water: 7.96
Water Column Height: 8.64
Final Depth to Water: 7.98
Final Total Well Depth: 16.81

Construction:

1 Purge Volume: 1.38
Casing Capacities: 2-inch=0.16 gal/ft; 4-inch=0.65 gal/ft
6.5-inch=1.7 gal/ft; 8-inch=2.6 gal/ft; 10-inch=4.1 gal/ft

Purge Time: Start 1235 End 1302

Instrumentation:
pH Meter (model): _____ Calibrated with Buffers: ____4 ____7 ____10
Conductivity Meter (model): _____ Calibrated with Standard Solution: _____ mS/cm
Turbidity Meter (model): _____ Calibrated with: _____

Development Summary:
Development method: Bailer _____ Pump (type) _____ Surge Block (type) _____
3 Purge Volume Calc: 4.14

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
1240	4	17.28	6.35	1.601			high	4	high sheen / Strong hc odor
1243		17.65	6.65	1.591			high	6	" "
1245		17.54	6.67	1.562			high	8	" "
1250		17.22	6.97	1.602			med	13	" "
1253		17.26	6.71	1.519			med	20	" "
1259		17.24	6.75	1.584			med	25	" "

Final

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
~~1253~~		~~17.26~~	~~6.71~~	~~1.519~~			~~med~~	~~20~~	" "
1302		17.24	6.80	1.528			med	30	

MONITORING WELL DEVELOPMENT LOG

USA ENVIRONMENT, L.P.
A Full Service Environmental Company

Date: 9/5/14
Well ID: MW-8R
Field Personnel: A. Stone

Weather: 70°F, Rain (intermittent)
Project No: 5047-RC-C100
Subcontractor: NA

Well Summary:
Depth to NAPL: NA
Initial Total Depth: 14.85
Initial Depth to Water: 12.13
Water Column Height: 2.72
Final Depth to Water: 14.65
Final Total Well Depth: 14.85

Construction:

1 Purge Volume: 0.44
Casing Capacities: 2-inch=0.16 gal/ft; 4-inch=0.65 gal/ft
6.5-inch=1.7 gal/ft; 8-inch=2.6 gal/ft; 10-inch=4.1 gal/ft

Purge Time: Start 1245 End

Instrumentation:
pH Meter (model): YSI Calibrated with Buffers: — 4 — 7 10
Conductivity Meter (model): YSI Calibrated with Standard Solution: mS/cm
Turbidity Meter (model): YSI Calibrated with:

Development Summary:
Development method: Bailer ✓ Pump (type) Surge Block (type)
3 Purge Volume Calc: 1.31

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
1250	1	16.59	6.58	3.448	–	–	low	0.5	
1250	2	16.49	6.61	3.745			mod	1.0	HC odor, slt. sheen.
1300	–	–	—	purged dry - Slow to recharge 1.25					

Final

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
1300	2.25	16.49	6.61	3.745	–	–	mod	1.25	

MONITORING WELL DEVELOPMENT LOG

USA ENVIRONMENT, L.P.
A Full Service Environmental Company

Date: 9/5/14
Well ID: MW-11
Field Personnel: A. Stone, C. Metz

Weather: Overcast, 70°
Project No: ~~5074~~ 5074 - RC-C100
Subcontractor:

Well Summary:
Depth to NAPL:
Initial Total Depth: 17.30
Initial Depth to Water: 8.70
Water Column Height: 8.60
Final Depth to Water: 9.10
Final Total Well Depth: 18.19

Construction:
1 Purge Volume: 1.37
Casing Capacities: 2-inch=0.16 gal/ft; 4-inch=0.65 gal/ft
6.5-inch=1.7 gal/ft; 8-inch=2.6 gal/ft; 10-inch=4.1 gal/ft
Purge Time: Start 1416 End 1450

Instrumentation:
pH Meter (model): YSI Calibrated with Buffers: X 4 X 7 10
Conductivity Meter (model): YSI Calibrated with Standard Solution: - mS/cm
Turbidity Meter (model): YSI Calibrated with: -

Development Summary:
Development method: Bailer Pump (type) Whale Surge Block (type)
3 Purge Volume Calc: 4.28

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
1418	1	18.02	6.69	0.745			High	1.5	
1426	2.5	17.19	7.00	0.630			High	3.5	
1435	3.5	17.26	6.94	0.461			High	5	
1439	5	17.05	6.94	0.378			med	7	
1445	6.5	17.04	6.78	0.374			med	9	

Final

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
1450	9.5	17.07	6.73	0.368			low	13	

MONITORING WELL DEVELOPMENT LOG

USA ENVIRONMENT, L.P.
A Full Service Environmental Company

Date: 9/5/14
Well ID: MW-12
Field Personnel: A. Stone, C. Metz

Weather: Overcast, 70°
Project No: 5047-RE-C100
Subcontractor:

Well Summary:
Depth to NAPL: NA
Initial Total Depth: 17.65
Initial Depth to Water: 10.11
Water Column Height: 7.54
Final Depth to Water: Dry
Final Total Well Depth: ~~16~~ 17.65

Construction:

1 Purge Volume: 1.21
Casing Capacities: 2-inch=0.16 gal/ft; 4-inch=0.65 gal/ft
6.5-inch=1.7 gal/ft; 8-inch=2.6 gal/ft; 10-inch=4.1 gal/ft

Purge Time: Start 1330 End 1400

Instrumentation:
pH Meter (model): YSI Calibrated with Buffers: ✓ 4 ✓ 7 ✓ 10
Conductivity Meter (model): YSI Calibrated with Standard Solution: ~ mS/cm
Turbidity Meter (model): YSI Calibrated with: ~

Development Summary:
Development method: Bailer Pump (type) Whale Surge Block (type)
3 Purge Volume Calc: 3.61

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
1332	2	17.45	6.96	0.851	–	–	mod	2.5	
1343	5.5	15.95	7.43	1.501	–	–	mod	6.5	
1354	6.0	16.05	7.49	1.472	–	–	mod	7.0	slt. HC odor, slt. sheen

Final

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
1354	6.0	16.05	7.49	1.472	–	–	mod	7.0	

Notes: Dry at 6.0 gal.
- small vol following purging dry, slow recharge

MONITORING WELL DEVELOPMENT LOG

USA ENVIRONMENT, L.P.
A Full Service Environmental Company

Date: 9/5/14
Well ID: MW-13
Field Personnel: C. Metz

Weather: 70°, lt. rain
Project No: 5047-RC-C100
Subcontractor: NA

Well Summary:
Depth to NAPL: NA
Initial Total Depth: 13.54
Initial Depth to Water: 5.0
Water Column Height: 8.54
Final Depth to Water: 5.8
Final Total Well Depth: 14.42

Construction:

1 Purge Volume: 1.36
Casing Capacities: 2-inch=0.16 gal/ft; 4-inch=0.65 gal/ft
6.5-inch=1.7 gal/ft; 8-inch=2.6 gal/ft; 10-inch=4.1 gal/ft

Purge Time: Start 1115 End 1207

Instrumentation:
pH Meter (model): YSI Calibrated with Buffers: X 4 X 7 10
Conductivity Meter (model): YSI Calibrated with Standard Solution: mS/cm
Turbidity Meter (model): NA Calibrated with:

Development Summary:
Development method: Bailer Pump (type) Whale Surge Block (type)
3 Purge Volume Calc: 4.09

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
1115	3	15.60	5.96	1.246	2.01	-75.4	High	4	hc odor
1119		15.49	6.49	1.179	2.38	1.2	High	6	sheen/hydrocarbon odor
1130		15.52	6.51	1.145	1.48	-11.9	Med	8	hc odor
1135		15.34	6.56	1.157	2.35	-11.6	Med	14	"
1145		15.45	6.48	1.118	0.97	-19.8	Med	18	"
1148		15.32	6.51	1.118	1.16	-16.6	low	24	"
1203		15.35	6.54	1.110	1.20	-13.8	low	28	"
								32	

Final

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
1207		15.35	6.51	1.109	1.21	-14.1	low	32	

V

MONITORING WELL DEVELOPMENT LOG

USA ENVIRONMENT, L.P.
A Full Service Environmental Company

Date: 2/20/15
Well ID: MW-14
Field Personnel: A. Stone, K.V.

Weather: 50°F, Partly Cloudy
Project No: 5047-RC-C100
Subcontractor: NA

Well Summary:
Depth to NAPL: ND
Initial Total Depth: 16.94
Initial Depth to Water: 10.61
Water Column Height: (7.46 - Target) (6.33)
Final Depth to Water: 10.60
Final Total Well Depth: 17.82

Construction: 2" monitoring well
1 Purge Volume: 1.2 gallons
Casing Capacities: 2-inch=0.16 gal/ft; 4-inch=0.65 gal/ft
6.5-inch=1.7 gal/ft; 8-inch=2.6 gal/ft; 10-inch=4.1 gal/ft
Purge Time: Start 0950 End 1005

Instrumentation:
pH Meter (model): YSI
Calibrated with Buffers: X 4 X 7 ____ 10
Conductivity Meter (model): YSI
Calibrated with Standard Solution: ____ mS/cm
Turbidity Meter (model): ____
Calibrated with: ____

Development Summary:
Development method: Bailer ____ Pump (type) whale Surge Block (type) ____
10 ~~3~~ Purge Volume Calc: ____

Time	Well Volume	Temp (°C)	pH	Conductivity (µS/cm)	~~DO (mg/L)~~	~~ORP (mV)~~	Turbidity	Gallons Evacuated	Visual Appearance/Comments
9:52	1	8.38	5.9	248		43	↑		
9:54	5gal	8.5	6.03	235		81			
9:56	7gal	8.21	5.87	233		87	↑		no sheen, odor
10:00	12gal	8.13	5.94	235		516.4	moderate		
10:03	17gal	8.23	5.94	210		63	clear - moderate		

Final

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
								35gal	· low turbidity after 35 gal

· no smell or sheen

10-15.

MONITORING WELL DEVELOPMENT LOG

USA ENVIRONMENT, L.P.
A Full Service Environmental Company

Date: 2-20-15
Well ID: MW-15
Field Personnel: A. Stone K.V

Weather: 50°F Partly Cloudy
Project No: 6047-RC-R100
Subcontractor:

Well Summary:
Depth to NAPL: –
Initial Total Depth: 14.88 (~18 total)
Initial Depth to Water: 10.20
Water Column Height: 7.70
Final Depth to Water: 10.75
Final Total Well Depth: 17.20

Construction: 2" Monitoring Wells
1 Purge Volume: 1.2 gal
Casing Capacities: 2-inch=0.16 gal/ft; 4-inch=0.65 gal/ft
6.5-inch=1.7 gal/ft; 8-inch=2.6 gal/ft; 10-inch=4.1 gal/ft
Purge Time: Start 1340 End 1420

Instrumentation:
pH Meter (model): YSI Calibrated with Buffers: ✓ 4 ✓ 7 _____ 10
Conductivity Meter (model): YSI Calibrated with Standard Solution: _____ mS/cm
Turbidity Meter (model): _____ Calibrated with: _____

Development Summary:
Development method: Bailer _____ Pump (type) whale Surge Block (type) _____
10 ~~3~~ Purge Volume Calc: 12.32

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	~~DO (mg/L)~~	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
1344	1	11.75	5.9	234		45	↑		Slight sheen & odor
1350	5	11.4	6.09	233		45	↑	4.5	
1355	7	11.9	6.02	191		49	↑	7	
1400	9	11.3	6.0	215		53	↑	9.5	
~~1400~~									(20 gal total purge)

Final

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	~~DO (mg/L)~~	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
1410		11.21	6.04	206		51	↑	14	Slight sheen/smell

MONITORING WELL DEVELOPMENT LOG

USA ENVIRONMENT, L.P.
A Full Service Environmental Company

Date: 2-20-15	Weather: 50°F Partly Cloudy
Well ID: MW-16	Project No: 5047-RC-C100
Field Personnel: A. Stones & KV	Subcontractor: NA

Well Summary:	Construction: 2" Monitoring Well
Depth to NAPL:	
Initial Total Depth: (13.99) ; 13.20 measured	1 Purge Volume: 0.955
Initial Depth to Water: 8.04	Casing Capacities: 2-inch=0.16 gal/ft; 4-inch=0.65 gal/ft
Water Column Height: (5.97 target) 5.16	6.5-inch=1.7 gal/ft; 8-inch=2.6 gal/ft; 10-inch=4.1 gal/ft
Final Depth to Water: 12.7	
Final Total Well Depth: 13.6 TOC ; 13.85 below ground	Purge Time: Start 1125 End 1525

Instrumentation:
pH Meter (model): YSI Calibrated with Buffers: X 4 X 7 _____ 10
Conductivity Meter (model): YSI Calibrated with Standard Solution: _____ mS/cm
Turbidity Meter (model): NA Calibrated with: –

Development Summary:
Development method: Bailer 2" bailer Pump (type) Whale (~3 gal) Surge Block (type) _____
10 1 Purge Volume Calc: ~9.5 gal

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated (total)	Visual Appearance/Comments
11:30	1	17.47	10.3	511		-32	high	1.0	Sheen, HC smell
11:05									well dry after 3gal by pump & 1.5 hand bail
1220	4	15.84	6.18	481		12.3	high	4.6	
1307									8.3 DTW → well recovered
1316	~6.5	14.65	10.15	444		10	high	10	
1445								7.5	
1525	~9.6	13.55	10.35	512		15	high	9	· Still high sheen/odor · recharge ~ 1hr · purge dry after 2.5-3.5 gal

Final

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
		13.55	6.35	512		15	high	9	

APPENDIX C

Surveyor's Report

MONITOR WELL COORDINATE TABLE

1770 13TH STREET, BOULDER
LOCATED IN THE SOUTHWEST QUARTER OF SECTION 30,
TOWNSHIP 1 NORTH, RANGE 70 WEST OF THE 6TH P.M.,
COUNTY OF BOULDER, STATE OF COLORADO
SHEET 1 OF 2

Coordinate Table – modified ground

DESCRIPTION	NORTHING	EASTING	PIPE ELEV.	RIM ELEV.
INT–A	5000.00	3000.00	5339.54	
MW–1	4701.40	2746.26	5341.52	5341.89
MW–2	4779.63	2876.98	5339.52	5339.75
MW–3R	4752.54	2943.90	5338.28	5338.57
MW–4	4581.75	2898.25	5336.64	5336.94
MW–5	4675.03	2920.08	5338.18	5338.50
MW–6	4680.68	3030.08	5337.53	5337.80
MW–7	4769.98	3006.65	5337.69	5338.15
MW–8R	4724.69	2907.40	5338.43	5338.83
MW–10	4717.47	3031.87	5337.47	5337.83
MW–11	4703.29	2833.28	5340.23	5340.76
MW–12	4713.76	2877.17	5341.21(2' ABOVE GRADE)	
MW–13	4606.56	3039.49	5336.55	5337.02
MW–14	4645.52	2773.78	5341.56	5341.76
MW–15	4658.56	2801.92	5341.09	5341.40
MW–16	4689.09	2893.59	5338.62	5338.91

UNITS ARE IN U.S. SURVEY FEET (3937 YARDS = 3600 METERS)
ELEVATIONS ARE BASED UPON THE NAVD 88 DATUM

INT–A IS A #5 REBAR LOCATED AT THE INTERSECTION OF 14TH STREET AND CANYON BOULEVARD, CITY OF BOULDER BENCHMARK "T". INT–A HAS BEEN USED AS THE BASE POINT BETWEEN THE STATE PLANE COORDINATES AND MODIFIED GROUND COORDINATES. THE SEA LEVEL FACTOR IS 0.999745. THE SCALE FACTOR IS 0.99996515. THE COMBINED FACTOR IS 0.99971016.

COLORADO REGISTERED STEVEN J. SELLARS 27615 3-13-2015 PROFESSIONAL LAND SURVEYOR

– Flagstaff Surveying Inc. –

Table Mesa Shopping Center
637 South Broadway, Suite C
Boulder, Colorado 80305
303–499–9737

16793A–5 MARCH 13, 2015

PREPARED BY STEVEN SELLARS
COLORADO PLS 27615

MONITOR WELL COORDINATE TABLE

1770 13TH STREET, BOULDER
LOCATED IN THE SOUTHWEST QUARTER OF SECTION 30,
TOWNSHIP 1 NORTH, RANGE 70 WEST OF THE 6TH P.M.,
COUNTY OF BOULDER, STATE OF COLORADO
SHEET 2 OF 2

Coordinate Table – Approximate State Plane

DESCRIPTION	NORTHING	EASTING	PIPE ELEV.	RIM ELEV.
INT–A	1248916.45	3062552.11	5339.54	
MW–1	1248617.94	3062298.44	5341.52	5341.89
MW–2	1248696.15	3062429.13	5339.52	5339.75
MW–3R	1248669.07	3062496.03	5338.28	5338.57
MW–4	1248498.33	3062450.39	5336.64	5336.94
MW–5	1248591.57	3062472.21	5338.18	5338.50
MW–6	1248597.22	3062582.18	5337.53	5337.80
MW–7	1248686.50	3062558.75	5337.69	5338.15
MW–8R	1248641.23	3062459.53	5338.43	5338.83
MW–10	1248634.01	3062583.97	5337.47	5337.83
MW–11	1248619.83	3062385.44	5340.23	5340.76
MW–12	1248630.29	3062429.31	5341.21(2' ABOVE GRADE)	
MW–13	1248523.13	3062591.59	5336.55	5337.02
MW–14	1248562.08	3062325.95	5341.56	5341.76
MW–15	1248575.11	3062354.08	5341.09	5341.40
MW–16	1248605.64	3062445.72	5338.62	5338.91

UNITS ARE IN U.S. SURVEY FEET (3937 YARDS = 3600 METERS)
ELEVATIONS ARE BASED UPON THE NAVD 88 DATUM
COLORADO COORDINATE SYSTEM OF 1983 NORTH ZONE

INT–A IS A #5 REBAR LOCATED AT THE INTERSECTION OF 14TH STREET AND CANYON BOULEVARD, CITY OF BOULDER BENCHMARK "T". INT–A HAS BEEN USED AS THE BASE POINT BETWEEN THE STATE PLANE COORDINATES AND MODIFIED GROUND COORDINATES. THE SEA LEVEL FACTOR IS 0.999745. THE SCALE FACTOR IS 0.99996515. THE COMBINED FACTOR IS 0.99971016. THE COORDINATES AT "INT–A" ARE APPROXIMATE ONLY.

COLORADO REGISTERED STEVEN J. SELLARS 27615 3-13-2015 PROFESSIONAL LAND SURVEYOR

– Flagstaff Surveying Inc. –

Table Mesa Shopping Center
637 South Broadway, Suite C
Boulder, Colorado 80305
303–499–9737

16793A–5 MARCH 13, 2015

PREPARED BY STEVEN SELLARS
COLORADO PLS 27615

APPENDIX D

Pilot Testing Field Forms

INJECTION SUMMARY LOG

Project Location: 13th Street Plaza, Boulder, CO
Injection Location: Trench-1
Contractor: Vista GeoScience

10/6/14

Date	Time	Flow (GPM)	Manifold Pressure (PSI)	Wellhead Pressure (PSI)	Totalizer Reading (Gallons)	Hydrogen Peroxide (% Conc)	Hydrogen Peroxide (Gallons)	Comments
10/6/14	1145	8.2	0	0	1904.29	5%	112	Gravity feed Batch #1 South DTW: 10.5
	1152	2.3	0	0				4.5 − 2.2 = 2.3
	1158	3.9	0	0				4.5 5.4
	1204	4.2	0	0				5.7 − 1.5 Tank level ~55 gal South DTW: 4.5
	1212	4.1	0	0				8.4 − 4.3 = 4.1
	1217	-	0	0	2005.21			End batch Total 101
1328	1328	-	-	-	2005.21	5%	300	Batch #2 Start South DTW: 6.8
	1331	4.1	0	0				8.3 − 4.2
	1338	4.8	0	0				- DTW in South end in ~1 ft from top of pipe - close in.
	1345	4.0	0	0				
	1359	3.2	0	0				
	1405	3.0	0	0				9.2
	1415	2.8	0	0				
	1420	2.6	0	0	2193.75			Tank Level ~125 gal. Calc flow from graduated tank line (2.8)
	1438	9.9	5.5	5.0	2199.87			Tank Level ~120 gal. Batch #2 w/ drum pump.
	1441	10.0	6.0	2.5				
	1446	9.2	5.5	2.0				
	1449	-	0	0	2321.95			Stop: ~316 gal injected.
	1600	-	0	0	2322.35			Batch #3 Started w/ Drum pump
	1602	10.0	6.0	2.0				
	1606	9.0	6.5	4.0				
	1613	9.3	6.5	3.5				STOP Trench-1 (553 gal)
	1615		6.5	3.5	2457.02			Short circuit around well head ~3' & 5' away 2 places
	1700	11.0	4.0	0.0	2457.61			East Trench Injection (north end)
	1707	10.5	5.0	0.0				
	1715	10.3	5.0	0.5				
	1718				2620.55			STOP 163 gallons injected.

620
457
163

INJECTION SUMMARY LOG

Pg. 1 of 2

Project Location: 13th Street Plaza, Boulder, CO
Injection Location: Trench ~~1~~ 2
Contractor: Vista GeoScience

Date	Time	Flow (GPM)	Manifold Pressure (PSI)	Wellhead Pressure (PSI)	Totalizer Reading (Gallons)	Hydrogen Peroxide (% Conc)	Hydrogen Peroxide (Gallons)	Comments
10/7/14	0941	—	—	—	2625.55	5%	300	Batch #4 Start w/ Drum pump - East Trench (N)
	0942	11.1	4.5	Ø		"		
	0947	10.9	4.5	Ø				
	0954	10.9	4.5	Ø				
	1000	11.0	4.5	Ø				
	1006	10.6	4.0	Ø				
	1009	—	—	—	2929.25			Stop - 303.7 gallons injected
	1125	—	—	—	2929.25	~~6.1~~ 4% *	300	Batch #5 Start w/ Drum Pump - East Trench (N)
	1130	10.7	5.0	Ø				
	1136	11.0	5.5	0.5				
	1139	10.9	5.5	0.5				* % Concentration calculated by amount of 35% Solution used to total gallons injected.
	1144	10.3	5.5	1.5				
	1150	10.1	5.5	1.5				
	1155	10.1	5.5	1.5				
	1158	—	—	—	3237.21			STOP Batch #5 ~308 gal injected.
	1310				3237.21	6.6	304	Start Batch #6 w/ Drum Pump - East Trench (N)
	1312	10.9	4.5	Ø				
	1316	10.8	5.5	1.5				
	1321	10.8	5.5	2.0				
	1326	9.6	6.5	3.0				
	1331	10.1	5.5	1.5				Batch #6 stopped - surfacing near S. end in vault and concrete seam
	1358	—	—		3478.64			Batch #6 restarted
	1359	10.4	4.5	0.5				
	1403	8.8	6.5	3.0				1/2 open value @ manifold
	1405	—	—	—	3541.42			Stop - Completed Batch #6 ~304 gal injected
	1509	1.0	8	Ø	3541.42			Batch #7 - Begin w/ Gravity feed (fill hatch)
	1516	8.5	8.0	Ø				- switch to Drum pump - throttle pump down to flow
	1519	6.5	11.0	Ø				
	1525	6.1	11.0	2.5				
	1532	6.8	11.0	3.0				
	1538	6.0	11.0	3.0				
	1545	—	—	—	3711.31			STOP - Pump Cool down - gas observed in South end. (~170 gal)
	1600	6.3	10.5	Ø				Restart
	1607	5.6	11.0	2.5				
	1616	5.4	11.0	3.0				
	1620	9.4	6.0	3.0				
	1623	—	—	—	3836.06	6.8	295	Stop - Complete Batch #7 ~295 gal injected.

INJECTION SUMMARY LOG

Project Location: 13th Street Plaza, Boulder, CO
Injection Location: Trench #2
Contractor: Vista GeoScience

10/7/14 Pg. 2 of 2

Date	Time	Flow (GPM)	Manifold Pressure (PSI)	Wellhead Pressure (PSI)	Totalizer Reading (Gallons)	Hydrogen Peroxide (% Conc)	Hydrogen Peroxide (Gallons)	Comments
10/7/14	1727	9.0	8.0	Ø	3820.06	7.5	200	Batch #8 - BEGIN
	1734	6.3	9.0	1.5				
	1737				3923.16			STOP - Gas observed in S. end (~87 gallons). - let settle and along concrete seams.
	1748	8.9	8.0	Ø				START - Throttle down.
	1750	6.3	11.0	0.5				
	1755				3969.29			STOP - Product surfacing (~46 gal) - Stop Trench 2 injections.
	1807	10.8	3.0	Ø	3969.29			* Move to Trench-1 (west) South end for remaining 90 gal.
	1813	–	–	–	4035.40	7.5	66	STOP
								* 618.83 gallons total injected to Trench-1
								1,512.27
								* ~~1,518.68~~ gallons injected to Trench-2
								= 2,130.52
								Totalizer 2131.14 gallons.

INJECTION PERIMETER MONITORING
13th STREET PLAZA
BOULDER, COLORADO

Date: 10/6/14

Monitoring Well	Time	DTW	DO	ORP	Conductivity (mS/cm²)	pH	Temperature
MW-11	1025	10.33	2.72	11.3	0.319	6.55	17.13
MW-12	1030	10.57	1.66	25.3	3.073	7.32	15.85
MW-8	1031	8.25	1.04	-79.6	5.595	6.93	16.93
MW-12	1210	10.57	–	–	–	–	–
MW-12	1225	10.61	2.34	28.9	3.085	7.24	18.04
MW-8	1227	8.29	1.25	19.6	5.535	6.90	17.46
MW-11	1228	9.19	0.93	9.7	0.326	6.81	17.48
MW-12	1443	10.60	–	–	–	–	–
MW-12	1457	10.62	1.24	30.5	3.101	7.21	16.79
MW-8	1503	8.28	0.83	30.0	5.361	6.89	18.32
MW-11	1507	9.18	0.73	-3.2	0.370	6.87	17.41
MW-11	1710	9.22	1.41	14.5	0.355	6.57	17.19
MW-12	1716	10.62	0.51	25.4	3.085	7.14	16.88
MW-8	1727	8.26	0.43	23.3	5.549	6.81	17.13

INJECTION PERIMETER MONITORING
13th STREET PLAZA
BOULDER, COLORADO

Date: 10/7/14

Monitoring Well	Time	DTW	DO	ORP	Conductivity	pH	Temperature
MW-12R	0855	10.56	1.93	31.2	3.122	7.27	16.74
MW-8R	0905	8.32	1.20	29.1	5.535	6.88	17.44
MW-12R	0935	10.57	1.10	32.5	3.141	7.25	16.46
MW-8R	0945	8.32	0.70	29.8	5.494	6.91	17.60
MW-12R	1205	10.59	1.70	29.3	3.140	7.31	17.05
MW-8R	1210	8.32	0.62	27.7	5.502	6.94	17.56
MW-8R	1410	8.32	3.13	68.7	5.406	6.94	19.01
MW-12R	1425	10.59	1.02	52.4	3.127	7.28	16.20
MW-8R	1615	8.59	1.94	59.8	5.384	7.01	19.17
MW-8R	1625	8.59	0.90	56.4	5.381	7.00	18.90
MW-12R	16~~45~~45	10.59	0.43	49.5	3.128	7.29	16.41
MW-8R	1828	8.32	0.56	44.4	5.606	6.92	16.96
MW-12R	1645	10.59	0.40	55.9	3.131	7.29	17.41

INJECTION PERIMETER MONITORING
13th STREET PLAZA
BOULDER, COLORADO

Date: 10/8/14

Monitoring Well	Time	DTW	DO	ORP	Conductivity	pH	Temperature
MW-11R	11:05	9.34	2.61	-10.1	0.315	6.62	17.02
MW-12R	11:15	10.54	1.10	25.3	3.180	7.20	16.22
MW-8R	11:20	8.34	0.88	23.6	5.634	6.89	16.84
MW-3R	11:30	8.58	0.74	-168.5	0.307	7.49	17.75
MW-5	11:40	7.74	0.81	-18.4	0.164	6.47	16.50

APPENDIX E

XDD Remedial Alternatives Analysis Report

12065 Lebanon Rd.
Mt. Juliet, TN 37122
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Tax I.D. 62-0814289

Est. 1970

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

Report Summary

Monday September 15, 2014

Report Number: L720234
Samples Received: 09/06/14
Client Project: 5047-RC-C100

Description: 13th Street Plaza

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Darren Reeder , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-01

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW3R-090414 10-11.5FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 07:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/kg		8260B	09/09/14	5
Acrylonitrile	U	0.0090	0.050	mg/kg		8260B	09/09/14	5
Benzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Bromobenzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Bromodichloromethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
Bromoform	U	0.0021	0.0050	mg/kg		8260B	09/09/14	5
Bromomethane	U	0.0067	0.025	mg/kg		8260B	09/09/14	5
n-Butylbenzene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
sec-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
tert-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
Carbon tetrachloride	U	0.0016	0.0050	mg/kg		8260B	09/09/14	5
Chlorobenzene	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Chlorodibromomethane	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
Chloroethane	U	0.0047	0.025	mg/kg		8260B	09/09/14	5
2-Chloroethyl vinyl ether	U	0.012	0.25	mg/kg		8260B	09/09/14	5
Chloroform	U	0.0011	0.025	mg/kg		8260B	09/09/14	5
Chloromethane	U	0.0019	0.013	mg/kg		8260B	09/09/14	5
2-Chlorotoluene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
4-Chlorotoluene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.025	mg/kg		8260B	09/09/14	5
1,2-Dibromoethane	U	0.0017	0.0050	mg/kg		8260B	09/09/14	5
Dibromomethane	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
1,3-Dichlorobenzene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,4-Dichlorobenzene	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Dichlorodifluoromethane	U	0.0036	0.025	mg/kg		8260B	09/09/14	5
1,1-Dichloroethane	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichloroethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,1-Dichloroethene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
cis-1,2-Dichloroethene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
trans-1,2-Dichloroethene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichloropropane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
1,1-Dichloropropene	U	0.0016	0.0050	mg/kg		8260B	09/09/14	5
1,3-Dichloropropane	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
cis-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
trans-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
2,2-Dichloropropane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Di-isopropyl ether	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
Ethylbenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
Hexachloro-1,3-butadiene	U	0.0017	0.0050	mg/kg		8260B	09/09/14	5
Isopropylbenzene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
p-Isopropyltoluene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5

U = ND (Not Detected)
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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-01

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW3R-090414 10-11.5FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 07:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Butanone (MEK)	U	0.023	0.050	mg/kg		8260B	09/09/14	5
Methylene Chloride	U	0.0050	0.025	mg/kg		8260B	09/09/14	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.050	mg/kg		8260B	09/09/14	5
Methyl tert-butyl ether	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Naphthalene	0.015	0.0050	0.025	mg/kg	J	8260B	09/09/14	5
n-Propylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
Styrene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
Tetrachloroethene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Toluene	U	0.0022	0.025	mg/kg		8260B	09/09/14	5
1,2,3-Trichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
1,2,4-Trichlorobenzene	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
1,1,1-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
1,1,2-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Trichloroethene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Trichlorofluoromethane	U	0.0019	0.025	mg/kg		8260B	09/09/14	5
1,2,3-Trichloropropane	U	0.0037	0.013	mg/kg		8260B	09/09/14	5
1,2,4-Trimethylbenzene	0.0038	0.0010	0.0050	mg/kg	J	8260B	09/09/14	5
1,2,3-Trimethylbenzene	0.0020	0.0014	0.0050	mg/kg	J	8260B	09/09/14	5
Vinyl chloride	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
1,3,5-Trimethylbenzene	0.0015	0.0013	0.0050	mg/kg	J	8260B	09/09/14	5
Xylenes, Total	U	0.0035	0.015	mg/kg		8260B	09/12/14	5
Surrogate Recovery								
Toluene-d8	106.			% Rec.		8260B	09/09/14	5
Dibromofluoromethane	100.			% Rec.		8260B	09/09/14	5
4-Bromofluorobenzene	106.			% Rec.		8260B	09/09/14	5
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.026	0.00060	0.0060	mg/kg		8270C-S	09/11/14	1
Acenaphthene	0.084	0.00060	0.0060	mg/kg		8270C-S	09/11/14	1
Acenaphthylene	0.024	0.00060	0.0060	mg/kg		8270C-S	09/11/14	1
Benzo(a)anthracene	0.0062	0.00060	0.0060	mg/kg		8270C-S	09/11/14	1
Benzo(a)pyrene	0.0027	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Benzo(b)fluoranthene	0.0019	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Benzo(g,h,i)perylene	0.0012	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Benzo(k)fluoranthene	0.00064	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Chrysene	0.0048	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Dibenz(a,h)anthracene	U	0.00060	0.0060	mg/kg		8270C-S	09/11/14	1
Fluoranthene	0.019	0.00060	0.0060	mg/kg		8270C-S	09/11/14	1
Fluorene	0.027	0.00060	0.0060	mg/kg		8270C-S	09/11/14	1
Indeno(1,2,3-cd)pyrene	0.00080	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1

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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-01

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW3R-090414 10-11.5FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 07:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Naphthalene	0.32	0.0020	0.020	mg/kg		8270C-S	09/11/14	1
Phenanthrene	0.067	0.00060	0.0060	mg/kg		8270C-S	09/11/14	1
Pyrene	0.025	0.00060	0.0060	mg/kg		8270C-S	09/11/14	1
1-Methylnaphthalene	0.20	0.0020	0.020	mg/kg		8270C-S	09/11/14	1
2-Methylnaphthalene	0.049	0.0020	0.020	mg/kg		8270C-S	09/11/14	1
2-Chloronaphthalene	U	0.0020	0.020	mg/kg		8270C-S	09/11/14	1
Surrogate Recovery								
p-Terphenyl-d14	77.9			% Rec.		8270C-S	09/11/14	1
Nitrobenzene-d5	75.3			% Rec.		8270C-S	09/11/14	1
2-Fluorobiphenyl	77.8			% Rec.		8270C-S	09/11/14	1

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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-02

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW8R-090414 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 10:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/kg		8260B	09/09/14	5
Acrylonitrile	U	0.0090	0.050	mg/kg		8260B	09/09/14	5
Benzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Bromobenzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Bromodichloromethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
Bromoform	U	0.0021	0.0050	mg/kg		8260B	09/09/14	5
Bromomethane	U	0.0067	0.025	mg/kg		8260B	09/09/14	5
n-Butylbenzene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
sec-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
tert-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
Carbon tetrachloride	U	0.0016	0.0050	mg/kg		8260B	09/09/14	5
Chlorobenzene	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Chlorodibromomethane	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
Chloroethane	U	0.0047	0.025	mg/kg		8260B	09/09/14	5
2-Chloroethyl vinyl ether	U	0.012	0.25	mg/kg		8260B	09/09/14	5
Chloroform	U	0.0011	0.025	mg/kg		8260B	09/09/14	5
Chloromethane	U	0.0019	0.013	mg/kg		8260B	09/09/14	5
2-Chlorotoluene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
4-Chlorotoluene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.025	mg/kg		8260B	09/09/14	5
1,2-Dibromoethane	U	0.0017	0.0050	mg/kg		8260B	09/09/14	5
Dibromomethane	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
1,3-Dichlorobenzene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,4-Dichlorobenzene	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Dichlorodifluoromethane	U	0.0036	0.025	mg/kg		8260B	09/09/14	5
1,1-Dichloroethane	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichloroethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,1-Dichloroethene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
cis-1,2-Dichloroethene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
trans-1,2-Dichloroethene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichloropropane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
1,1-Dichloropropene	U	0.0016	0.0050	mg/kg		8260B	09/09/14	5
1,3-Dichloropropane	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
cis-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
trans-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
2,2-Dichloropropane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Di-isopropyl ether	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
Ethylbenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
Hexachloro-1,3-butadiene	U	0.0017	0.0050	mg/kg		8260B	09/09/14	5
Isopropylbenzene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
p-Isopropyltoluene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5

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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-02

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW8R-090414 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 10:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Butanone (MEK)	U	0.023	0.050	mg/kg		8260B	09/09/14	5
Methylene Chloride	U	0.0050	0.025	mg/kg		8260B	09/09/14	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.050	mg/kg		8260B	09/09/14	5
Methyl tert-butyl ether	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Naphthalene	U	0.0050	0.025	mg/kg		8260B	09/09/14	5
n-Propylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
Styrene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
Tetrachloroethene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Toluene	U	0.0022	0.025	mg/kg		8260B	09/09/14	5
1,2,3-Trichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
1,2,4-Trichlorobenzene	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
1,1,1-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
1,1,2-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Trichloroethene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Trichlorofluoromethane	U	0.0019	0.025	mg/kg		8260B	09/09/14	5
1,2,3-Trichloropropane	U	0.0037	0.013	mg/kg		8260B	09/09/14	5
1,2,4-Trimethylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
1,2,3-Trimethylbenzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Vinyl chloride	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
1,3,5-Trimethylbenzene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
Xylenes, Total	U	0.0035	0.015	mg/kg		8260B	09/09/14	5
Surrogate Recovery								
Toluene-d8	106.			% Rec.		8260B	09/09/14	5
Dibromofluoromethane	102.			% Rec.		8260B	09/09/14	5
4-Bromofluorobenzene	102.			% Rec.		8260B	09/09/14	5
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00060	0.0060	mg/kg		8270C-S	09/11/14	1
Acenaphthene	0.0011	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Acenaphthylene	U	0.00060	0.0060	mg/kg		8270C-S	09/11/14	1
Benzo(a)anthracene	0.0020	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Benzo(a)pyrene	0.0012	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Benzo(b)fluoranthene	0.0015	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Benzo(g,h,i)perylene	0.0018	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Benzo(k)fluoranthene	U	0.00060	0.0060	mg/kg		8270C-S	09/11/14	1
Chrysene	0.0016	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Dibenz(a,h)anthracene	U	0.00060	0.0060	mg/kg		8270C-S	09/11/14	1
Fluoranthene	0.0026	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Fluorene	0.00065	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Indeno(1,2,3-cd)pyrene	0.00097	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1

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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-02

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW8R-090414 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 10:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Naphthalene	U	0.0020	0.020	mg/kg		8270C-S	09/11/14	1
Phenanthrene	0.0020	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
Pyrene	0.0025	0.00060	0.0060	mg/kg	J	8270C-S	09/11/14	1
1-Methylnaphthalene	U	0.0020	0.020	mg/kg		8270C-S	09/11/14	1
2-Methylnaphthalene	U	0.0020	0.020	mg/kg		8270C-S	09/11/14	1
2-Chloronaphthalene	U	0.0020	0.020	mg/kg		8270C-S	09/11/14	1
Surrogate Recovery								
p-Terphenyl-d14	64.1			% Rec.		8270C-S	09/11/14	1
Nitrobenzene-d5	81.2			% Rec.		8270C-S	09/11/14	1
2-Fluorobiphenyl	72.4			% Rec.		8270C-S	09/11/14	1

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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-03

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW11-090515 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 09:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/kg		8260B	09/09/14	5
Acrylonitrile	U	0.0090	0.050	mg/kg		8260B	09/09/14	5
Benzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Bromobenzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Bromodichloromethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
Bromoform	U	0.0021	0.0050	mg/kg		8260B	09/09/14	5
Bromomethane	U	0.0067	0.025	mg/kg		8260B	09/09/14	5
n-Butylbenzene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
sec-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
tert-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
Carbon tetrachloride	U	0.0016	0.0050	mg/kg		8260B	09/09/14	5
Chlorobenzene	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Chlorodibromomethane	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
Chloroethane	U	0.0047	0.025	mg/kg		8260B	09/09/14	5
2-Chloroethyl vinyl ether	U	0.012	0.25	mg/kg		8260B	09/09/14	5
Chloroform	U	0.0011	0.025	mg/kg		8260B	09/09/14	5
Chloromethane	U	0.0019	0.013	mg/kg		8260B	09/09/14	5
2-Chlorotoluene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
4-Chlorotoluene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.025	mg/kg		8260B	09/09/14	5
1,2-Dibromoethane	U	0.0017	0.0050	mg/kg		8260B	09/09/14	5
Dibromomethane	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
1,3-Dichlorobenzene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,4-Dichlorobenzene	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Dichlorodifluoromethane	U	0.0036	0.025	mg/kg		8260B	09/09/14	5
1,1-Dichloroethane	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichloroethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,1-Dichloroethene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
cis-1,2-Dichloroethene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
trans-1,2-Dichloroethene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichloropropane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
1,1-Dichloropropene	U	0.0016	0.0050	mg/kg		8260B	09/09/14	5
1,3-Dichloropropane	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
cis-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
trans-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
2,2-Dichloropropane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Di-isopropyl ether	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
Ethylbenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
Hexachloro-1,3-butadiene	U	0.0017	0.0050	mg/kg		8260B	09/09/14	5
Isopropylbenzene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
p-Isopropyltoluene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-03

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW11-090515 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 09:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Butanone (MEK)	U	0.023	0.050	mg/kg		8260B	09/09/14	5
Methylene Chloride	U	0.0050	0.025	mg/kg		8260B	09/09/14	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.050	mg/kg		8260B	09/09/14	5
Methyl tert-butyl ether	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Naphthalene	U	0.0050	0.025	mg/kg		8260B	09/09/14	5
n-Propylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
Styrene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
Tetrachloroethene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Toluene	U	0.0022	0.025	mg/kg		8260B	09/09/14	5
1,2,3-Trichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
1,2,4-Trichlorobenzene	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
1,1,1-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
1,1,2-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Trichloroethene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Trichlorofluoromethane	U	0.0019	0.025	mg/kg		8260B	09/09/14	5
1,2,3-Trichloropropane	U	0.0037	0.013	mg/kg		8260B	09/09/14	5
1,2,4-Trimethylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
1,2,3-Trimethylbenzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Vinyl chloride	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
1,3,5-Trimethylbenzene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
Xylenes, Total	U	0.0035	0.015	mg/kg		8260B	09/09/14	5
Surrogate Recovery								
Toluene-d8	106.			% Rec.		8260B	09/09/14	5
Dibromofluoromethane	103.			% Rec.		8260B	09/09/14	5
4-Bromofluorobenzene	103.			% Rec.		8260B	09/09/14	5
Polynuclear Aromatic Hydrocarbons								
Anthracene	1.2	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Acenaphthene	0.18	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Acenaphthylene	0.20	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(a)anthracene	0.88	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(a)pyrene	0.64	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(b)fluoranthene	0.47	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(g,h,i)perylene	0.25	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(k)fluoranthene	0.089	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Chrysene	0.72	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Dibenz(a,h)anthracene	0.071	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Fluoranthene	1.4	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Fluorene	0.33	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Indeno(1,2,3-cd)pyrene	0.20	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1

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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-03

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW11-090515 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 09:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Naphthalene	0.0059	0.0020	0.020	mg/kg	J	8270C-S	09/13/14	1
Phenanthrene	3.9	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Pyrene	2.1	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
1-Methylnaphthalene	0.17	0.0020	0.020	mg/kg		8270C-S	09/13/14	1
2-Methylnaphthalene	0.053	0.0020	0.020	mg/kg		8270C-S	09/13/14	1
2-Chloronaphthalene	U	0.0020	0.020	mg/kg		8270C-S	09/13/14	1
Surrogate Recovery								
p-Terphenyl-d14	75.9			% Rec.		8270C-S	09/13/14	1
Nitrobenzene-d5	74.8			% Rec.		8270C-S	09/13/14	1
2-Fluorobiphenyl	101.			% Rec.		8270C-S	09/13/14	1

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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-04

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW12-090414 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 12:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/kg		8260B	09/09/14	5
Acrylonitrile	U	0.0090	0.050	mg/kg		8260B	09/09/14	5
Benzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Bromobenzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Bromodichloromethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
Bromoform	U	0.0021	0.0050	mg/kg		8260B	09/09/14	5
Bromomethane	U	0.0067	0.025	mg/kg		8260B	09/09/14	5
n-Butylbenzene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
sec-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
tert-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
Carbon tetrachloride	U	0.0016	0.0050	mg/kg		8260B	09/09/14	5
Chlorobenzene	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Chlorodibromomethane	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
Chloroethane	U	0.0047	0.025	mg/kg		8260B	09/09/14	5
2-Chloroethyl vinyl ether	U	0.012	0.25	mg/kg		8260B	09/09/14	5
Chloroform	U	0.0011	0.025	mg/kg		8260B	09/09/14	5
Chloromethane	U	0.0019	0.013	mg/kg		8260B	09/09/14	5
2-Chlorotoluene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
4-Chlorotoluene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.025	mg/kg		8260B	09/09/14	5
1,2-Dibromoethane	U	0.0017	0.0050	mg/kg		8260B	09/09/14	5
Dibromomethane	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
1,3-Dichlorobenzene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,4-Dichlorobenzene	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Dichlorodifluoromethane	U	0.0036	0.025	mg/kg		8260B	09/09/14	5
1,1-Dichloroethane	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichloroethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,1-Dichloroethene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
cis-1,2-Dichloroethene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
trans-1,2-Dichloroethene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichloropropane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
1,1-Dichloropropene	U	0.0016	0.0050	mg/kg		8260B	09/09/14	5
1,3-Dichloropropane	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
cis-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
trans-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
2,2-Dichloropropane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Di-isopropyl ether	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
Ethylbenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
Hexachloro-1,3-butadiene	U	0.0017	0.0050	mg/kg		8260B	09/09/14	5
Isopropylbenzene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
p-Isopropyltoluene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5

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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-04

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW12-090414 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 12:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Butanone (MEK)	U	0.023	0.050	mg/kg		8260B	09/09/14	5
Methylene Chloride	U	0.0050	0.025	mg/kg		8260B	09/09/14	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.050	mg/kg		8260B	09/09/14	5
Methyl tert-butyl ether	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Naphthalene	U	0.0050	0.025	mg/kg		8260B	09/09/14	5
n-Propylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
Styrene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
Tetrachloroethene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Toluene	U	0.0022	0.025	mg/kg		8260B	09/09/14	5
1,2,3-Trichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
1,2,4-Trichlorobenzene	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
1,1,1-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
1,1,2-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Trichloroethene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Trichlorofluoromethane	U	0.0019	0.025	mg/kg		8260B	09/09/14	5
1,2,3-Trichloropropane	U	0.0037	0.013	mg/kg		8260B	09/09/14	5
1,2,4-Trimethylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
1,2,3-Trimethylbenzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Vinyl chloride	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
1,3,5-Trimethylbenzene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
Xylenes, Total	U	0.0035	0.015	mg/kg		8260B	09/09/14	5
Surrogate Recovery								
Toluene-d8	106.			% Rec.		8260B	09/09/14	5
Dibromofluoromethane	103.			% Rec.		8260B	09/09/14	5
4-Bromofluorobenzene	105.			% Rec.		8260B	09/09/14	5
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.010	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Acenaphthene	0.028	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Acenaphthylene	0.0070	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(a)anthracene	0.0047	0.00060	0.0060	mg/kg	J	8270C-S	09/13/14	1
Benzo(a)pyrene	0.0040	0.00060	0.0060	mg/kg	J	8270C-S	09/13/14	1
Benzo(b)fluoranthene	0.0044	0.00060	0.0060	mg/kg	J	8270C-S	09/13/14	1
Benzo(g,h,i)perylene	0.0037	0.00060	0.0060	mg/kg	J	8270C-S	09/13/14	1
Benzo(k)fluoranthene	0.0011	0.00060	0.0060	mg/kg	J	8270C-S	09/13/14	1
Chrysene	0.0074	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Dibenz(a,h)anthracene	0.0011	0.00060	0.0060	mg/kg	J	8270C-S	09/13/14	1
Fluoranthene	0.011	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Fluorene	0.022	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Indeno(1,2,3-cd)pyrene	0.0018	0.00060	0.0060	mg/kg	J	8270C-S	09/13/14	1

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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-04

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW12-090414 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 12:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Naphthalene	0.0089	0.0020	0.020	mg/kg	J	8270C-S	09/13/14	1
Phenanthrene	0.046	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Pyrene	0.015	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
1-Methylnaphthalene	0.024	0.0020	0.020	mg/kg		8270C-S	09/13/14	1
2-Methylnaphthalene	0.013	0.0020	0.020	mg/kg	J	8270C-S	09/13/14	1
2-Chloronaphthalene	U	0.0020	0.020	mg/kg		8270C-S	09/13/14	1
Surrogate Recovery								
p-Terphenyl-d14	70.8			% Rec.		8270C-S	09/13/14	1
Nitrobenzene-d5	78.2			% Rec.		8270C-S	09/13/14	1
2-Fluorobiphenyl	76.8			% Rec.		8270C-S	09/13/14	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-05

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW13-090514 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 07:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/kg		8260B	09/09/14	5
Acrylonitrile	U	0.0090	0.050	mg/kg		8260B	09/09/14	5
Benzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Bromobenzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Bromodichloromethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
Bromoform	U	0.0021	0.0050	mg/kg		8260B	09/09/14	5
Bromomethane	U	0.0067	0.025	mg/kg		8260B	09/09/14	5
n-Butylbenzene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
sec-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
tert-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
Carbon tetrachloride	U	0.0016	0.0050	mg/kg		8260B	09/09/14	5
Chlorobenzene	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Chlorodibromomethane	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
Chloroethane	U	0.0047	0.025	mg/kg		8260B	09/09/14	5
2-Chloroethyl vinyl ether	U	0.012	0.25	mg/kg		8260B	09/09/14	5
Chloroform	U	0.0011	0.025	mg/kg		8260B	09/09/14	5
Chloromethane	U	0.0019	0.013	mg/kg		8260B	09/09/14	5
2-Chlorotoluene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
4-Chlorotoluene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.025	mg/kg		8260B	09/09/14	5
1,2-Dibromoethane	U	0.0017	0.0050	mg/kg		8260B	09/09/14	5
Dibromomethane	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
1,3-Dichlorobenzene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,4-Dichlorobenzene	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Dichlorodifluoromethane	U	0.0036	0.025	mg/kg		8260B	09/09/14	5
1,1-Dichloroethane	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichloroethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,1-Dichloroethene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
cis-1,2-Dichloroethene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
trans-1,2-Dichloroethene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichloropropane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
1,1-Dichloropropene	U	0.0016	0.0050	mg/kg		8260B	09/09/14	5
1,3-Dichloropropane	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
cis-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
trans-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
2,2-Dichloropropane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Di-isopropyl ether	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
Ethylbenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
Hexachloro-1,3-butadiene	U	0.0017	0.0050	mg/kg		8260B	09/09/14	5
Isopropylbenzene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
p-Isopropyltoluene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-05

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW13-090514 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 07:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Butanone (MEK)	U	0.023	0.050	mg/kg		8260B	09/09/14	5
Methylene Chloride	U	0.0050	0.025	mg/kg		8260B	09/09/14	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.050	mg/kg		8260B	09/09/14	5
Methyl tert-butyl ether	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Naphthalene	U	0.0050	0.025	mg/kg		8260B	09/09/14	5
n-Propylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
Styrene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
Tetrachloroethene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Toluene	U	0.0022	0.025	mg/kg		8260B	09/09/14	5
1,2,3-Trichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
1,2,4-Trichlorobenzene	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
1,1,1-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
1,1,2-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Trichloroethene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Trichlorofluoromethane	U	0.0019	0.025	mg/kg		8260B	09/09/14	5
1,2,3-Trichloropropane	U	0.0037	0.013	mg/kg		8260B	09/09/14	5
1,2,4-Trimethylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
1,2,3-Trimethylbenzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Vinyl chloride	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
1,3,5-Trimethylbenzene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
Xylenes, Total	U	0.0035	0.015	mg/kg		8260B	09/09/14	5
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	09/09/14	5
Dibromofluoromethane	103.			% Rec.		8260B	09/09/14	5
4-Bromofluorobenzene	106.			% Rec.		8260B	09/09/14	5
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.036	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Acenaphthene	0.037	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Acenaphthylene	0.0029	0.00060	0.0060	mg/kg	J	8270C-S	09/13/14	1
Benzo(a)anthracene	0.060	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(a)pyrene	0.058	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(b)fluoranthene	0.064	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(g,h,i)perylene	0.044	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(k)fluoranthene	0.018	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Chrysene	0.063	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Dibenz(a,h)anthracene	0.011	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Fluoranthene	0.13	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Fluorene	0.019	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Indeno(1,2,3-cd)pyrene	0.035	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1

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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-05

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB MW13-090514 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 07:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Naphthalene	0.078	0.0020	0.020	mg/kg		8270C-S	09/13/14	1
Phenanthrene	0.13	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Pyrene	0.12	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
1-Methylnaphthalene	0.058	0.0020	0.020	mg/kg		8270C-S	09/13/14	1
2-Methylnaphthalene	0.073	0.0020	0.020	mg/kg		8270C-S	09/13/14	1
2-Chloronaphthalene	U	0.0020	0.020	mg/kg		8270C-S	09/13/14	1
Surrogate Recovery								
p-Terphenyl-d14	76.6			% Rec.		8270C-S	09/13/14	1
Nitrobenzene-d5	82.1			% Rec.		8270C-S	09/13/14	1
2-Fluorobiphenyl	83.1			% Rec.		8270C-S	09/13/14	1

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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-06

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB-FIELDDUP-090514 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 10:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/kg		8260B	09/09/14	5
Acrylonitrile	U	0.0090	0.050	mg/kg		8260B	09/09/14	5
Benzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Bromobenzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Bromodichloromethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
Bromoform	U	0.0021	0.0050	mg/kg		8260B	09/09/14	5
Bromomethane	U	0.0067	0.025	mg/kg		8260B	09/09/14	5
n-Butylbenzene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
sec-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
tert-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
Carbon tetrachloride	U	0.0016	0.0050	mg/kg		8260B	09/09/14	5
Chlorobenzene	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Chlorodibromomethane	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
Chloroethane	U	0.0047	0.025	mg/kg		8260B	09/09/14	5
2-Chloroethyl vinyl ether	U	0.012	0.25	mg/kg		8260B	09/09/14	5
Chloroform	U	0.0011	0.025	mg/kg		8260B	09/09/14	5
Chloromethane	U	0.0019	0.013	mg/kg		8260B	09/09/14	5
2-Chlorotoluene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
4-Chlorotoluene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.025	mg/kg		8260B	09/09/14	5
1,2-Dibromoethane	U	0.0017	0.0050	mg/kg		8260B	09/09/14	5
Dibromomethane	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
1,3-Dichlorobenzene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,4-Dichlorobenzene	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Dichlorodifluoromethane	U	0.0036	0.025	mg/kg		8260B	09/09/14	5
1,1-Dichloroethane	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichloroethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,1-Dichloroethene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
cis-1,2-Dichloroethene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
trans-1,2-Dichloroethene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,2-Dichloropropane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
1,1-Dichloropropene	U	0.0016	0.0050	mg/kg		8260B	09/09/14	5
1,3-Dichloropropane	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
cis-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
trans-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
2,2-Dichloropropane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Di-isopropyl ether	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
Ethylbenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
Hexachloro-1,3-butadiene	U	0.0017	0.0050	mg/kg		8260B	09/09/14	5
Isopropylbenzene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
p-Isopropyltoluene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5

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REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
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Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-06

Date Received : September 06, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB-FIELDDUP-090514 10-12FT

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 09/04/14 10:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Butanone (MEK)	U	0.023	0.050	mg/kg		8260B	09/09/14	5
Methylene Chloride	U	0.0050	0.025	mg/kg		8260B	09/09/14	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.050	mg/kg		8260B	09/09/14	5
Methyl tert-butyl ether	U	0.0011	0.0050	mg/kg		8260B	09/09/14	5
Naphthalene	U	0.0050	0.025	mg/kg		8260B	09/09/14	5
n-Propylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
Styrene	U	0.0012	0.0050	mg/kg		8260B	09/09/14	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0050	mg/kg		8260B	09/09/14	5
Tetrachloroethene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Toluene	U	0.0022	0.025	mg/kg		8260B	09/09/14	5
1,2,3-Trichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	09/09/14	5
1,2,4-Trichlorobenzene	U	0.0019	0.0050	mg/kg		8260B	09/09/14	5
1,1,1-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
1,1,2-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Trichloroethene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Trichlorofluoromethane	U	0.0019	0.025	mg/kg		8260B	09/09/14	5
1,2,3-Trichloropropane	U	0.0037	0.013	mg/kg		8260B	09/09/14	5
1,2,4-Trimethylbenzene	U	0.0010	0.0050	mg/kg		8260B	09/09/14	5
1,2,3-Trimethylbenzene	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
Vinyl chloride	U	0.0014	0.0050	mg/kg		8260B	09/09/14	5
1,3,5-Trimethylbenzene	U	0.0013	0.0050	mg/kg		8260B	09/09/14	5
Xylenes, Total	U	0.0035	0.015	mg/kg		8260B	09/09/14	5
Surrogate Recovery								
Toluene-d8	107.			% Rec.		8260B	09/09/14	5
Dibromofluoromethane	111.			% Rec.		8260B	09/09/14	5
4-Bromofluorobenzene	103.			% Rec.		8260B	09/09/14	5
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.76	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Acenaphthene	0.093	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Acenaphthylene	0.10	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(a)anthracene	0.55	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(a)pyrene	0.41	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(b)fluoranthene	0.27	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(g,h,i)perylene	0.17	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Benzo(k)fluoranthene	0.058	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Chrysene	0.46	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Dibenz(a,h)anthracene	0.047	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Fluoranthene	0.87	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Fluorene	0.17	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Indeno(1,2,3-cd)pyrene	0.13	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1

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Reported: 09/15/14 13:27 Printed: 09/15/14 13:28

12065 Lebanon Rd.
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(615) 758-5858
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Andrew Stone
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 15, 2014

ESC Sample # : L720234-06

Site ID : 13TH STREET PLAZA

Project # : 5047-RC-C100

Date Received : September 06, 2014
Description : 13th Street Plaza

Sample ID : COB-FIELDDUP-090514 10-12FT

Collected By : Andrew Stone
Collection Date : 09/04/14 10:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Naphthalene	0.0063	0.0020	0.020	mg/kg	J	8270C-S	09/13/14	1
Phenanthrene	2.4	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
Pyrene	1.3	0.00060	0.0060	mg/kg		8270C-S	09/13/14	1
1-Methylnaphthalene	0.10	0.0020	0.020	mg/kg		8270C-S	09/13/14	1
2-Methylnaphthalene	0.082	0.0020	0.020	mg/kg		8270C-S	09/13/14	1
2-Chloronaphthalene	U	0.0020	0.020	mg/kg		8270C-S	09/13/14	1
Surrogate Recovery								
p-Terphenyl-d14	72.9			% Rec.		8270C-S	09/13/14	1
Nitrobenzene-d5	70.9			% Rec.		8270C-S	09/13/14	1
2-Fluorobiphenyl	85.9			% Rec.		8270C-S	09/13/14	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
The reported analytical results relate only to the sample submitted.
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L720234-01	WG741888	SAMP	Benzo(a)pyrene	R2988055	J
	WG741888	SAMP	Benzo(b)fluoranthene	R2988055	J
	WG741888	SAMP	Benzo(g,h,i)perylene	R2988055	J
	WG741888	SAMP	Benzo(k)fluoranthene	R2988055	J
	WG741888	SAMP	Chrysene	R2988055	J
	WG741888	SAMP	Indeno(1,2,3-cd)pyrene	R2988055	J
	WG741558	SAMP	Naphthalene	R2987799	J
	WG741558	SAMP	1,2,4-Trimethylbenzene	R2987799	J
	WG741558	SAMP	1,2,3-Trimethylbenzene	R2987799	J
	WG741558	SAMP	1,3,5-Trimethylbenzene	R2987799	J
L720234-02	WG741888	SAMP	Acenaphthene	R2988055	J
	WG741888	SAMP	Benzo(a)anthracene	R2988055	J
	WG741888	SAMP	Benzo(a)pyrene	R2988055	J
	WG741888	SAMP	Benzo(b)fluoranthene	R2988055	J
	WG741888	SAMP	Benzo(g,h,i)perylene	R2988055	J
	WG741888	SAMP	Chrysene	R2988055	J
	WG741888	SAMP	Fluoranthene	R2988055	J
	WG741888	SAMP	Fluorene	R2988055	J
	WG741888	SAMP	Indeno(1,2,3-cd)pyrene	R2988055	J
	WG741888	SAMP	Phenanthrene	R2988055	J
	WG741888	SAMP	Pyrene	R2988055	J
L720234-03	WG741972	SAMP	Naphthalene	R2989384	J
L720234-04	WG741972	SAMP	Benzo(a)anthracene	R2989384	J
	WG741972	SAMP	Benzo(a)pyrene	R2989384	J
	WG741972	SAMP	Benzo(b)fluoranthene	R2989384	J
	WG741972	SAMP	Benzo(g,h,i)perylene	R2989384	J
	WG741972	SAMP	Benzo(k)fluoranthene	R2989384	J
	WG741972	SAMP	Dibenz(a,h)anthracene	R2989384	J
	WG741972	SAMP	Indeno(1,2,3-cd)pyrene	R2989384	J
	WG741972	SAMP	Naphthalene	R2989384	J
	WG741972	SAMP	2-Methylnaphthalene	R2989384	J
L720234-05	WG741972	SAMP	Acenaphthylene	R2989384	J
L720234-06	WG741972	SAMP	Naphthalene	R2989384	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
09/15/14 at 13:28:54

TSR Signing Reports: 296
R5 - Desired TAT

Sample: L720234-01 Account: USAENVGCO Received: 09/06/14 09:00 Due Date: 09/12/14 00:00 RPT Date: 09/15/14 13:27

Sample: L720234-02 Account: USAENVGCO Received: 09/06/14 09:00 Due Date: 09/12/14 00:00 RPT Date: 09/15/14 13:27

Sample: L720234-03 Account: USAENVGCO Received: 09/06/14 09:00 Due Date: 09/12/14 00:00 RPT Date: 09/15/14 13:27

Sample: L720234-04 Account: USAENVGCO Received: 09/06/14 09:00 Due Date: 09/12/14 00:00 RPT Date: 09/15/14 13:27

Sample: L720234-05 Account: USAENVGCO Received: 09/06/14 09:00 Due Date: 09/12/14 00:00 RPT Date: 09/15/14 13:27

Sample: L720234-06 Account: USAENVGCO Received: 09/06/14 09:00 Due Date: 09/12/14 00:00 RPT Date: 09/15/14 13:27

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Quality Assurance Report
Level II

L720234

September 15, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG741558	09/09/14 12:32
1,1,1-Trichloroethane	< .001	mg/kg			WG741558	09/09/14 12:32
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG741558	09/09/14 12:32
1,1,2-Trichloroethane	< .001	mg/kg			WG741558	09/09/14 12:32
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG741558	09/09/14 12:32
1,1-Dichloroethane	< .001	mg/kg			WG741558	09/09/14 12:32
1,1-Dichloroethene	< .001	mg/kg			WG741558	09/09/14 12:32
1,1-Dichloropropene	< .001	mg/kg			WG741558	09/09/14 12:32
1,2,3-Trichlorobenzene	< .001	mg/kg			WG741558	09/09/14 12:32
1,2,3-Trichloropropane	< .0025	mg/kg			WG741558	09/09/14 12:32
1,2,3-Trimethylbenzene	< .001	mg/kg			WG741558	09/09/14 12:32
1,2,4-Trichlorobenzene	< .001	mg/kg			WG741558	09/09/14 12:32
1,2,4-Trimethylbenzene	< .001	mg/kg			WG741558	09/09/14 12:32
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG741558	09/09/14 12:32
1,2-Dibromoethane	< .001	mg/kg			WG741558	09/09/14 12:32
1,2-Dichlorobenzene	< .001	mg/kg			WG741558	09/09/14 12:32
1,2-Dichloroethane	< .001	mg/kg			WG741558	09/09/14 12:32
1,2-Dichloropropane	< .001	mg/kg			WG741558	09/09/14 12:32
1,3,5-Trimethylbenzene	< .001	mg/kg			WG741558	09/09/14 12:32
1,3-Dichlorobenzene	< .001	mg/kg			WG741558	09/09/14 12:32
1,3-Dichloropropane	< .001	mg/kg			WG741558	09/09/14 12:32
1,4-Dichlorobenzene	< .001	mg/kg			WG741558	09/09/14 12:32
2,2-Dichloropropane	< .001	mg/kg			WG741558	09/09/14 12:32
2-Butanone (MEK)	< .01	mg/kg			WG741558	09/09/14 12:32
2-Chloroethyl vinyl ether	< .05	mg/kg			WG741558	09/09/14 12:32
2-Chlorotoluene	< .001	mg/kg			WG741558	09/09/14 12:32
4-Chlorotoluene	< .001	mg/kg			WG741558	09/09/14 12:32
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG741558	09/09/14 12:32
Acetone	< .05	mg/kg			WG741558	09/09/14 12:32
Acrylonitrile	< .01	mg/kg			WG741558	09/09/14 12:32
Benzene	< .001	mg/kg			WG741558	09/09/14 12:32
Bromobenzene	< .001	mg/kg			WG741558	09/09/14 12:32
Bromodichloromethane	< .001	mg/kg			WG741558	09/09/14 12:32
Bromoform	< .001	mg/kg			WG741558	09/09/14 12:32
Bromomethane	< .005	mg/kg			WG741558	09/09/14 12:32
Carbon tetrachloride	< .001	mg/kg			WG741558	09/09/14 12:32
Chlorobenzene	< .001	mg/kg			WG741558	09/09/14 12:32
Chlorodibromomethane	< .001	mg/kg			WG741558	09/09/14 12:32
Chloroethane	< .005	mg/kg			WG741558	09/09/14 12:32
Chloroform	< .005	mg/kg			WG741558	09/09/14 12:32
Chloromethane	< .0025	mg/kg			WG741558	09/09/14 12:32
cis-1,2-Dichloroethene	< .001	mg/kg			WG741558	09/09/14 12:32
cis-1,3-Dichloropropene	< .001	mg/kg			WG741558	09/09/14 12:32
Di-isopropyl ether	< .001	mg/kg			WG741558	09/09/14 12:32
Dibromomethane	< .001	mg/kg			WG741558	09/09/14 12:32
Dichlorodifluoromethane	< .005	mg/kg			WG741558	09/09/14 12:32
Ethylbenzene	< .001	mg/kg			WG741558	09/09/14 12:32
Hexachloro-1,3-butadiene	< .001	mg/kg			WG741558	09/09/14 12:32
Isopropylbenzene	< .001	mg/kg			WG741558	09/09/14 12:32
Methyl tert-butyl ether	< .001	mg/kg			WG741558	09/09/14 12:32
Methylene Chloride	< .005	mg/kg			WG741558	09/09/14 12:32
n-Butylbenzene	< .001	mg/kg			WG741558	09/09/14 12:32
n-Propylbenzene	< .001	mg/kg			WG741558	09/09/14 12:32
Naphthalene	< .005	mg/kg			WG741558	09/09/14 12:32
p-Isopropyltoluene	< .001	mg/kg			WG741558	09/09/14 12:32
sec-Butylbenzene	< .001	mg/kg			WG741558	09/09/14 12:32
Styrene	< .001	mg/kg			WG741558	09/09/14 12:32
tert-Butylbenzene	< .001	mg/kg			WG741558	09/09/14 12:32
Tetrachloroethene	< .001	mg/kg			WG741558	09/09/14 12:32

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L720234

September 15, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Toluene	< .005	mg/kg			WG741558	09/09/14 12:32
trans-1,2-Dichloroethene	< .001	mg/kg			WG741558	09/09/14 12:32
trans-1,3-Dichloropropene	< .001	mg/kg			WG741558	09/09/14 12:32
Trichloroethene	< .001	mg/kg			WG741558	09/09/14 12:32
Trichlorofluoromethane	< .005	mg/kg			WG741558	09/09/14 12:32
Vinyl chloride	< .001	mg/kg			WG741558	09/09/14 12:32
Xylenes, Total	< .003	mg/kg			WG741558	09/09/14 12:32
4-Bromofluorobenzene		% Rec.	103.0	71-126	WG741558	09/09/14 12:32
Dibromofluoromethane		% Rec.	97.80	78.3-121	WG741558	09/09/14 12:32
Toluene-d8		% Rec.	105.0	88.5-111	WG741558	09/09/14 12:32
1-Methylnaphthalene	< .02	mg/kg			WG741888	09/11/14 01:18
2-Chloronaphthalene	< .02	mg/kg			WG741888	09/11/14 01:18
2-Methylnaphthalene	< .02	mg/kg			WG741888	09/11/14 01:18
Acenaphthene	< .006	mg/kg			WG741888	09/11/14 01:18
Acenaphthylene	< .006	mg/kg			WG741888	09/11/14 01:18
Anthracene	< .006	mg/kg			WG741888	09/11/14 01:18
Benzo(a)anthracene	< .006	mg/kg			WG741888	09/11/14 01:18
Benzo(a)pyrene	< .006	mg/kg			WG741888	09/11/14 01:18
Benzo(b)fluoranthene	< .006	mg/kg			WG741888	09/11/14 01:18
Benzo(g,h,i)perylene	< .006	mg/kg			WG741888	09/11/14 01:18
Benzo(k)fluoranthene	< .006	mg/kg			WG741888	09/11/14 01:18
Chrysene	< .006	mg/kg			WG741888	09/11/14 01:18
Dibenz(a,h)anthracene	< .006	mg/kg			WG741888	09/11/14 01:18
Fluoranthene	< .006	mg/kg			WG741888	09/11/14 01:18
Fluorene	< .006	mg/kg			WG741888	09/11/14 01:18
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG741888	09/11/14 01:18
Naphthalene	< .02	mg/kg			WG741888	09/11/14 01:18
Phenanthrene	< .006	mg/kg			WG741888	09/11/14 01:18
Pyrene	< .006	mg/kg			WG741888	09/11/14 01:18
2-Fluorobiphenyl		% Rec.	85.90	38.2-135	WG741888	09/11/14 01:18
Nitrobenzene-d5		% Rec.	81.10	28.4-151	WG741888	09/11/14 01:18
p-Terphenyl-d14		% Rec.	72.40	34.2-141	WG741888	09/11/14 01:18
Xylenes, Total	< .003	mg/kg			WG742533	09/12/14 09:16
4-Bromofluorobenzene		% Rec.	99.40	71-126	WG742533	09/12/14 09:16
Dibromofluoromethane		% Rec.	98.00	78.3-121	WG742533	09/12/14 09:16
Toluene-d8		% Rec.	99.70	88.5-111	WG742533	09/12/14 09:16
1-Methylnaphthalene	< .02	mg/kg			WG741972	09/13/14 16:36
2-Chloronaphthalene	< .02	mg/kg			WG741972	09/13/14 16:36
2-Methylnaphthalene	< .02	mg/kg			WG741972	09/13/14 16:36
Acenaphthene	< .006	mg/kg			WG741972	09/13/14 16:36
Acenaphthylene	< .006	mg/kg			WG741972	09/13/14 16:36
Anthracene	< .006	mg/kg			WG741972	09/13/14 16:36
Benzo(a)anthracene	< .006	mg/kg			WG741972	09/13/14 16:36
Benzo(a)pyrene	< .006	mg/kg			WG741972	09/13/14 16:36
Benzo(b)fluoranthene	< .006	mg/kg			WG741972	09/13/14 16:36
Benzo(g,h,i)perylene	< .006	mg/kg			WG741972	09/13/14 16:36
Benzo(k)fluoranthene	< .006	mg/kg			WG741972	09/13/14 16:36
Chrysene	< .006	mg/kg			WG741972	09/13/14 16:36
Dibenz(a,h)anthracene	< .006	mg/kg			WG741972	09/13/14 16:36
Fluoranthene	< .006	mg/kg			WG741972	09/13/14 16:36
Fluorene	< .006	mg/kg			WG741972	09/13/14 16:36
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG741972	09/13/14 16:36
Naphthalene	< .02	mg/kg			WG741972	09/13/14 16:36

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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L720234

September 15, 2014

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Phenanthrene	< .006	mg/kg			WG741972	09/13/14 16:36
Pyrene	< .006	mg/kg			WG741972	09/13/14 16:36
2-Fluorobiphenyl		% Rec.	86.30	38.2-135	WG741972	09/13/14 16:36
Nitrobenzene-d5		% Rec.	90.80	28.4-151	WG741972	09/13/14 16:36
p-Terphenyl-d14		% Rec.	83.80	34.2-141	WG741972	09/13/14 16:36

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0265	106.	72.9-124	WG741558
1,1,1-Trichloroethane	mg/kg	.025	0.0251	101.	73.7-124	WG741558
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0260	104.	69.4-122	WG741558
1,1,2-Trichloroethane	mg/kg	.025	0.0269	108.	79.1-118	WG741558
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0250	100.	70-146	WG741558
1,1-Dichloroethane	mg/kg	.025	0.0251	100.	75-124	WG741558
1,1-Dichloroethene	mg/kg	.025	0.0210	84.1	70.4-129	WG741558
1,1-Dichloropropene	mg/kg	.025	0.0248	99.3	74.9-124	WG741558
1,2,3-Trichlorobenzene	mg/kg	.025	0.0262	105.	69.3-131	WG741558
1,2,3-Trichloropropane	mg/kg	.025	0.0251	100.	71.4-123	WG741558
1,2,3-Trimethylbenzene	mg/kg	.025	0.0242	96.7	73.6-113	WG741558
1,2,4-Trichlorobenzene	mg/kg	.025	0.0274	110.	71.9-137	WG741558
1,2,4-Trimethylbenzene	mg/kg	.025	0.0263	105.	75.5-122	WG741558
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0237	94.9	62.8-133	WG741558
1,2-Dibromoethane	mg/kg	.025	0.0262	105.	78.6-120	WG741558
1,2-Dichlorobenzene	mg/kg	.025	0.0252	101.	78.3-118	WG741558
1,2-Dichloroethane	mg/kg	.025	0.0258	103.	70.1-124	WG741558
1,2-Dichloropropane	mg/kg	.025	0.0256	103.	77.9-119	WG741558
1,3,5-Trimethylbenzene	mg/kg	.025	0.0261	104.	75.9-124	WG741558
1,3-Dichlorobenzene	mg/kg	.025	0.0271	108.	72-126	WG741558
1,3-Dichloropropane	mg/kg	.025	0.0254	102.	79.1-117	WG741558
1,4-Dichlorobenzene	mg/kg	.025	0.0241	96.4	78.3-117	WG741558
2,2-Dichloropropane	mg/kg	.025	0.0246	98.5	61.3-136	WG741558
2-Butanone (MEK)	mg/kg	.125	0.116	92.7	53.7-153	WG741558
2-Chloroethyl vinyl ether	mg/kg	.125	0.170	136.	37.7-157	WG741558
2-Chlorotoluene	mg/kg	.025	0.0267	107.	75.6-121	WG741558
4-Chlorotoluene	mg/kg	.025	0.0269	108.	77.3-120	WG741558
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.118	94.6	70.4-137	WG741558
Acetone	mg/kg	.125	0.113	90.5	35.1-175	WG741558
Acrylonitrile	mg/kg	.125	0.122	97.7	56.4-128	WG741558
Benzene	mg/kg	.025	0.0247	98.9	77.1-121	WG741558
Bromobenzene	mg/kg	.025	0.0257	103.	78.2-115	WG741558
Bromodichloromethane	mg/kg	.025	0.0255	102.	74.9-115	WG741558
Bromoform	mg/kg	.025	0.0270	108.	65.9-132	WG741558
Bromomethane	mg/kg	.025	0.0261	104.	48.7-165	WG741558
Carbon tetrachloride	mg/kg	.025	0.0256	103.	70-124	WG741558
Chlorobenzene	mg/kg	.025	0.0270	108.	79.1-119	WG741558
Chlorodibromomethane	mg/kg	.025	0.0255	102.	73.5-121	WG741558
Chloroethane	mg/kg	.025	0.0230	91.8	66.2-132	WG741558
Chloroform	mg/kg	.025	0.0260	104.	76.7-122	WG741558
Chloromethane	mg/kg	.025	0.0243	97.3	63.4-131	WG741558
cis-1,2-Dichloroethene	mg/kg	.025	0.0261	105.	78.2-119	WG741558
cis-1,3-Dichloropropene	mg/kg	.025	0.0252	101.	79.6-120	WG741558
Di-isopropyl ether	mg/kg	.025	0.0248	99.0	70.4-133	WG741558
Dibromomethane	mg/kg	.025	0.0248	99.2	79.4-120	WG741558
Dichlorodifluoromethane	mg/kg	.025	0.0260	104.	57.1-137	WG741558
Ethylbenzene	mg/kg	.025	0.0260	104.	79.7-122	WG741558
Hexachloro-1,3-butadiene	mg/kg	.025	0.0253	101.	68.2-123	WG741558
Isopropylbenzene	mg/kg	.025	0.0266	106.	80-135	WG741558
Methyl tert-butyl ether	mg/kg	.025	0.0248	99.2	73-129	WG741558

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Quality Assurance Report
Level II

L720234

September 15, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Methylene Chloride	mg/kg	.025	0.0243	97.3	72.6-120	WG741558
n-Butylbenzene	mg/kg	.025	0.0257	103.	77.5-126	WG741558
n-Propylbenzene	mg/kg	.025	0.0263	105.	77.9-123	WG741558
Naphthalene	mg/kg	.025	0.0247	98.8	69.8-128	WG741558
p-Isopropyltoluene	mg/kg	.025	0.0264	106.	75.8-129	WG741558
sec-Butylbenzene	mg/kg	.025	0.0266	107.	75.8-126	WG741558
Styrene	mg/kg	.025	0.0267	107.	82.4-126	WG741558
tert-Butylbenzene	mg/kg	.025	0.0269	107.	76.4-126	WG741558
Tetrachloroethene	mg/kg	.025	0.0263	105.	73.9-125	WG741558
Toluene	mg/kg	.025	0.0250	100.	79.7-118	WG741558
trans-1,2-Dichloroethene	mg/kg	.025	0.0245	98.2	73.8-122	WG741558
trans-1,3-Dichloropropene	mg/kg	.025	0.0244	97.6	75.9-124	WG741558
Trichloroethene	mg/kg	.025	0.0257	103.	77.9-118	WG741558
Trichlorofluoromethane	mg/kg	.025	0.0238	95.3	67.7-131	WG741558
Vinyl chloride	mg/kg	.025	0.0215	86.0	66.7-130	WG741558
Xylenes, Total	mg/kg	.075	0.0781	104.	78.8-121	WG741558
4-Bromofluorobenzene				104.0	71-126	WG741558
Dibromofluoromethane				104.0	78.3-121	WG741558
Toluene-d8				105.0	88.5-111	WG741558
1-Methylnaphthalene	mg/kg	.08	0.0705	88.1	48.9-127	WG741888
2-Chloronaphthalene	mg/kg	.08	0.0739	92.4	48.8-125	WG741888
2-Methylnaphthalene	mg/kg	.08	0.0716	89.5	45.7-131	WG741888
Acenaphthene	mg/kg	.08	0.0739	92.3	48.7-127	WG741888
Acenaphthylene	mg/kg	.08	0.0686	85.8	47.9-128	WG741888
Anthracene	mg/kg	.08	0.0784	98.0	51.3-136	WG741888
Benzo(a)anthracene	mg/kg	.08	0.0705	88.2	55-126	WG741888
Benzo(a)pyrene	mg/kg	.08	0.0680	85.0	51.9-127	WG741888
Benzo(b)fluoranthene	mg/kg	.08	0.0702	87.7	54-125	WG741888
Benzo(g,h,i)perylene	mg/kg	.08	0.0691	86.3	53.8-136	WG741888
Benzo(k)fluoranthene	mg/kg	.08	0.0788	98.5	53.9-132	WG741888
Chrysene	mg/kg	.08	0.0820	103.	55.7-133	WG741888
Dibenz(a,h)anthracene	mg/kg	.08	0.0701	87.7	52.6-137	WG741888
Fluoranthene	mg/kg	.08	0.0798	99.8	54-132	WG741888
Fluorene	mg/kg	.08	0.0731	91.3	48.7-127	WG741888
Indeno(1,2,3-cd)pyrene	mg/kg	.08	0.0688	86.0	53.8-138	WG741888
Naphthalene	mg/kg	.08	0.0659	82.4	42-127	WG741888
Phenanthrene	mg/kg	.08	0.0693	86.7	49.6-126	WG741888
Pyrene	mg/kg	.08	0.0620	77.6	54-129	WG741888
2-Fluorobiphenyl				92.70	38.2-135	WG741888
Nitrobenzene-d5				93.80	28.4-151	WG741888
p-Terphenyl-d14				78.70	34.2-141	WG741888
Xylenes, Total	mg/kg	.075	0.0764	102.	78.8-121	WG742533
4-Bromofluorobenzene				100.0	71-126	WG742533
Dibromofluoromethane				97.70	78.3-121	WG742533
Toluene-d8				103.0	88.5-111	WG742533
1-Methylnaphthalene	mg/kg	.08	0.0614	76.8	48.9-127	WG741972
2-Chloronaphthalene	mg/kg	.08	0.0611	76.3	48.8-125	WG741972
2-Methylnaphthalene	mg/kg	.08	0.0607	75.9	45.7-131	WG741972
Acenaphthene	mg/kg	.08	0.0596	74.5	48.7-127	WG741972
Acenaphthylene	mg/kg	.08	0.0583	72.8	47.9-128	WG741972
Anthracene	mg/kg	.08	0.0630	78.7	51.3-136	WG741972
Benzo(a)anthracene	mg/kg	.08	0.0600	75.0	55-126	WG741972
Benzo(a)pyrene	mg/kg	.08	0.0511	63.9	51.9-127	WG741972

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Benzo(b)fluoranthene	mg/kg	.08	0.0571	71.4	54-125	WG741972
Benzo(g,h,i)perylene	mg/kg	.08	0.0616	77.0	53.8-136	WG741972
Benzo(k)fluoranthene	mg/kg	.08	0.0639	79.8	53.9-132	WG741972
Chrysene	mg/kg	.08	0.0638	79.7	55.7-133	WG741972
Dibenz(a,h)anthracene	mg/kg	.08	0.0608	76.0	52.6-137	WG741972
Fluoranthene	mg/kg	.08	0.0616	77.0	54-132	WG741972
Fluorene	mg/kg	.08	0.0603	75.3	48.7-127	WG741972
Indeno(1,2,3-cd)pyrene	mg/kg	.08	0.0627	78.3	53.8-138	WG741972
Naphthalene	mg/kg	.08	0.0579	72.4	42-127	WG741972
Phenanthrene	mg/kg	.08	0.0565	70.6	49.6-126	WG741972
Pyrene	mg/kg	.08	0.0579	72.3	54-129	WG741972
2-Fluorobiphenyl				79.10	38.2-135	WG741972
Nitrobenzene-d5				80.00	28.4-151	WG741972
p-Terphenyl-d14				76.00	34.2-141	WG741972

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0278	0.0265	111.	72.9-124	4.84	20	WG741558
1,1,1-Trichloroethane	mg/kg	0.0260	0.0251	104.	73.7-124	3.18	20	WG741558
1,1,2,2-Tetrachloroethane	mg/kg	0.0254	0.0260	101.	69.4-122	2.62	20	WG741558
1,1,2-Trichloroethane	mg/kg	0.0264	0.0269	105.	79.1-118	1.96	20	WG741558
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0235	0.0250	94.0	70-146	6.38	20	WG741558
1,1-Dichloroethane	mg/kg	0.0248	0.0251	99.0	75-124	1.10	20	WG741558
1,1-Dichloroethene	mg/kg	0.0195	0.0210	78.0	70.4-129	7.34	20	WG741558
1,1-Dichloropropene	mg/kg	0.0251	0.0248	100.	74.9-124	0.920	20	WG741558
1,2,3-Trichlorobenzene	mg/kg	0.0256	0.0262	102.	69.3-131	2.14	20	WG741558
1,2,3-Trichloropropane	mg/kg	0.0254	0.0251	102.	71.4-123	1.31	20	WG741558
1,2,3-Trimethylbenzene	mg/kg	0.0251	0.0242	100.	73.6-113	3.90	20	WG741558
1,2,4-Trichlorobenzene	mg/kg	0.0269	0.0274	107.	71.9-137	1.97	20	WG741558
1,2,4-Trimethylbenzene	mg/kg	0.0269	0.0263	108.	75.5-122	2.17	20	WG741558
1,2-Dibromo-3-Chloropropane	mg/kg	0.0222	0.0237	89.0	62.8-133	6.47	20	WG741558
1,2-Dibromoethane	mg/kg	0.0258	0.0262	103.	78.6-120	1.46	20	WG741558
1,2-Dichlorobenzene	mg/kg	0.0260	0.0252	104.	78.3-118	3.13	20	WG741558
1,2-Dichloroethane	mg/kg	0.0254	0.0258	102.	70.1-124	1.48	20	WG741558
1,2-Dichloropropane	mg/kg	0.0262	0.0256	105.	77.9-119	2.00	20	WG741558
1,3,5-Trimethylbenzene	mg/kg	0.0268	0.0261	107.	75.9-124	2.75	20	WG741558
1,3-Dichlorobenzene	mg/kg	0.0276	0.0271	110.	72-126	1.96	20	WG741558
1,3-Dichloropropane	mg/kg	0.0255	0.0254	102.	79.1-117	0.350	20	WG741558
1,4-Dichlorobenzene	mg/kg	0.0253	0.0241	101.	78.3-117	4.76	20	WG741558
2,2-Dichloropropane	mg/kg	0.0251	0.0246	100.	61.3-136	1.74	20	WG741558
2-Butanone (MEK)	mg/kg	0.107	0.116	86.0	53.7-153	7.80	21.2	WG741558
2-Chloroethyl vinyl ether	mg/kg	0.160	0.170	128.	37.7-157	5.91	20	WG741558
2-Chlorotoluene	mg/kg	0.0280	0.0267	112.	75.6-121	4.91	20	WG741558
4-Chlorotoluene	mg/kg	0.0277	0.0269	111.	77.3-120	3.04	20	WG741558
4-Methyl-2-pentanone (MIBK)	mg/kg	0.111	0.118	89.0	70.4-137	5.91	20	WG741558
Acetone	mg/kg	0.0963	0.113	77.0	35.1-175	16.1	26.1	WG741558
Acrylonitrile	mg/kg	0.114	0.122	91.0	56.4-128	6.69	20	WG741558
Benzene	mg/kg	0.0251	0.0247	100.	77.1-121	1.50	20	WG741558
Bromobenzene	mg/kg	0.0264	0.0257	105.	78.2-115	2.38	20	WG741558
Bromodichloromethane	mg/kg	0.0262	0.0255	105.	74.9-115	2.56	20	WG741558
Bromoform	mg/kg	0.0263	0.0270	105.	65.9-132	2.70	20	WG741558
Bromomethane	mg/kg	0.0251	0.0261	100.	48.7-165	3.81	20	WG741558
Carbon tetrachloride	mg/kg	0.0263	0.0256	105.	70-124	2.57	20	WG741558
Chlorobenzene	mg/kg	0.0273	0.0270	109.	79.1-119	1.08	20	WG741558
Chlorodibromomethane	mg/kg	0.0259	0.0255	104.	73.5-121	1.84	20	WG741558
Chloroethane	mg/kg	0.0219	0.0230	87.0	66.2-132	4.86	20	WG741558
Chloroform	mg/kg	0.0265	0.0260	106.	76.7-122	2.00	20	WG741558
Chloromethane	mg/kg	0.0237	0.0243	95.0	63.4-131	2.51	20	WG741558

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Quality Assurance Report
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Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
cis-1,2-Dichloroethene	mg/kg	0.0258	0.0261	103.	78.2-119	1.45	20	WG741558
cis-1,3-Dichloropropene	mg/kg	0.0255	0.0252	102.	79.6-120	1.17	20	WG741558
Di-isopropyl ether	mg/kg	0.0238	0.0248	95.0	70.4-133	3.75	20	WG741558
Dibromomethane	mg/kg	0.0243	0.0248	97.0	79.4-120	2.01	20	WG741558
Dichlorodifluoromethane	mg/kg	0.0256	0.0260	102.	57.1-137	1.66	20	WG741558
Ethylbenzene	mg/kg	0.0267	0.0260	107.	79.7-122	2.85	20	WG741558
Hexachloro-1,3-butadiene	mg/kg	0.0262	0.0253	105.	68.2-123	3.24	20	WG741558
Isopropylbenzene	mg/kg	0.0276	0.0266	110.	80-135	3.98	20	WG741558
Methyl tert-butyl ether	mg/kg	0.0229	0.0248	91.0	73-129	8.20	20	WG741558
Methylene Chloride	mg/kg	0.0227	0.0243	91.0	72.6-120	6.84	20	WG741558
n-Butylbenzene	mg/kg	0.0269	0.0257	108.	77.5-126	4.79	20	WG741558
n-Propylbenzene	mg/kg	0.0273	0.0263	109.	77.9-123	3.75	20	WG741558
Naphthalene	mg/kg	0.0239	0.0247	95.0	69.8-128	3.42	20	WG741558
p-Isopropyltoluene	mg/kg	0.0274	0.0264	110.	75.8-129	3.69	20	WG741558
sec-Butylbenzene	mg/kg	0.0275	0.0266	110.	75.8-126	3.10	20	WG741558
Styrene	mg/kg	0.0278	0.0267	111.	82.4-126	4.07	20	WG741558
tert-Butylbenzene	mg/kg	0.0273	0.0269	109.	76.4-126	1.55	20	WG741558
Tetrachloroethene	mg/kg	0.0270	0.0263	108.	73.9-125	2.79	20	WG741558
Toluene	mg/kg	0.0257	0.0250	103.	79.7-118	2.77	20	WG741558
trans-1,2-Dichloroethene	mg/kg	0.0233	0.0245	93.0	73.8-122	5.11	20	WG741558
trans-1,3-Dichloropropene	mg/kg	0.0238	0.0244	95.0	75.9-124	2.52	20	WG741558
Trichloroethene	mg/kg	0.0266	0.0257	106.	77.9-118	3.58	20	WG741558
Trichlorofluoromethane	mg/kg	0.0228	0.0238	91.0	67.7-131	4.55	20	WG741558
Vinyl chloride	mg/kg	0.0210	0.0215	84.0	66.7-130	2.55	20	WG741558
Xylenes, Total	mg/kg	0.0801	0.0781	107.	78.8-121	2.61	20	WG741558
4-Bromofluorobenzene				103.0	71-126			WG741558
Dibromofluoromethane				100.0	78.3-121			WG741558
Toluene-d8				105.0	88.5-111			WG741558
1-Methylnaphthalene	mg/kg	0.0744	0.0705	93.0	48.9-127	5.37	20	WG741888
2-Chloronaphthalene	mg/kg	0.0792	0.0739	99.0	48.8-125	6.99	20	WG741888
2-Methylnaphthalene	mg/kg	0.0762	0.0716	95.0	45.7-131	6.26	20	WG741888
Acenaphthene	mg/kg	0.0793	0.0739	99.0	48.7-127	7.09	20	WG741888
Acenaphthylene	mg/kg	0.0737	0.0686	92.0	47.9-128	7.12	20	WG741888
Anthracene	mg/kg	0.0838	0.0784	105.	51.3-136	6.67	20	WG741888
Benzo(a)anthracene	mg/kg	0.0759	0.0705	95.0	55-126	7.34	20	WG741888
Benzo(a)pyrene	mg/kg	0.0730	0.0680	91.0	51.9-127	7.10	20	WG741888
Benzo(b)fluoranthene	mg/kg	0.0727	0.0702	91.0	54-125	3.52	20	WG741888
Benzo(g,h,i)perylene	mg/kg	0.0737	0.0691	92.0	53.8-136	6.46	20	WG741888
Benzo(k)fluoranthene	mg/kg	0.0872	0.0788	109.	53.9-132	10.1	20	WG741888
Chrysene	mg/kg	0.0872	0.0820	109.	55.7-133	6.09	20	WG741888
Dibenz(a,h)anthracene	mg/kg	0.0750	0.0701	94.0	52.6-137	6.71	20	WG741888
Fluoranthene	mg/kg	0.0857	0.0798	107.	54-132	7.11	20	WG741888
Fluorene	mg/kg	0.0775	0.0731	97.0	48.7-127	5.86	20	WG741888
Indeno(1,2,3-cd)pyrene	mg/kg	0.0734	0.0688	92.0	53.8-138	6.38	20	WG741888
Naphthalene	mg/kg	0.0728	0.0659	91.0	42-127	9.99	20	WG741888
Phenanthrene	mg/kg	0.0736	0.0693	92.0	49.6-126	5.94	20	WG741888
Pyrene	mg/kg	0.0651	0.0620	81.0	54-129	4.75	20	WG741888
2-Fluorobiphenyl				98.90	38.2-135			WG741888
Nitrobenzene-d5				104.0	28.4-151			WG741888
p-Terphenyl-d14				82.00	34.2-141			WG741888
Xylenes, Total	mg/kg	0.0749	0.0764	100.	78.8-121	1.98	20	WG742533
4-Bromofluorobenzene				98.60	71-126			WG742533
Dibromofluoromethane				97.10	78.3-121			WG742533
Toluene-d8				102.0	88.5-111			WG742533

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Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1-Methylnaphthalene	mg/kg	0.0681	0.0614	85.0	48.9-127	10.4	20	WG741972
2-Chloronaphthalene	mg/kg	0.0666	0.0611	83.0	48.8-125	8.73	20	WG741972
2-Methylnaphthalene	mg/kg	0.0673	0.0607	84.0	45.7-131	10.4	20	WG741972
Acenaphthene	mg/kg	0.0641	0.0596	80.0	48.7-127	7.17	20	WG741972
Acenaphthylene	mg/kg	0.0619	0.0583	77.0	47.9-128	6.07	20	WG741972
Anthracene	mg/kg	0.0679	0.0630	85.0	51.3-136	7.56	20	WG741972
Benzo(a)anthracene	mg/kg	0.0630	0.0600	79.0	55-126	4.90	20	WG741972
Benzo(a)pyrene	mg/kg	0.0603	0.0511	75.0	51.9-127	16.4	20	WG741972
Benzo(b)fluoranthene	mg/kg	0.0626	0.0571	78.0	54-125	9.18	20	WG741972
Benzo(g,h,i)perylene	mg/kg	0.0666	0.0616	83.0	53.8-136	7.68	20	WG741972
Benzo(k)fluoranthene	mg/kg	0.0683	0.0639	85.0	53.9-132	6.63	20	WG741972
Chrysene	mg/kg	0.0674	0.0638	84.0	55.7-133	5.56	20	WG741972
Dibenz(a,h)anthracene	mg/kg	0.0656	0.0608	82.0	52.6-137	7.57	20	WG741972
Fluoranthene	mg/kg	0.0649	0.0616	81.0	54-132	5.16	20	WG741972
Fluorene	mg/kg	0.0641	0.0603	80.0	48.7-127	6.08	20	WG741972
Indeno(1,2,3-cd)pyrene	mg/kg	0.0677	0.0627	85.0	53.8-138	7.68	20	WG741972
Naphthalene	mg/kg	0.0619	0.0579	77.0	42-127	6.57	20	WG741972
Phenanthrene	mg/kg	0.0604	0.0565	76.0	49.6-126	6.80	20	WG741972
Pyrene	mg/kg	0.0620	0.0579	77.0	54-129	6.81	20	WG741972
2-Fluorobiphenyl				83.40	38.2-135			WG741972
Nitrobenzene-d5				86.90	28.4-151			WG741972
p-Terphenyl-d14				80.00	34.2-141			WG741972

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.134	0.0	.025	110.	64-128	L720128-01	WG741558
1,1,1-Trichloroethane	mg/kg	0.116	0.0	.025	93.0	58.7-134	L720128-01	WG741558
1,1,2,2-Tetrachloroethane	mg/kg	0.126	0.0	.025	100.	56-132	L720128-01	WG741558
1,1,2-Trichloroethane	mg/kg	0.129	0.0	.025	100.	66.3-125	L720128-01	WG741558
1,1,2-Trichlorotrifluoroethane	mg/kg	0.112	0.0	.025	90.0	54.8-154	L720128-01	WG741558
1,1-Dichloroethane	mg/kg	0.114	0.0	.025	91.0	58.5-132	L720128-01	WG741558
1,1-Dichloroethene	mg/kg	0.0904	0.0	.025	72.0	51.1-140	L720128-01	WG741558
1,1-Dichloropropene	mg/kg	0.111	0.0	.025	88.0	57.3-136	L720128-01	WG741558
1,2,3-Trichlorobenzene	mg/kg	0.119	0.0	.025	95.0	59.1-138	L720128-01	WG741558
1,2,3-Trichloropropane	mg/kg	0.120	0.0	.025	96.0	61.4-128	L720128-01	WG741558
1,2,3-Trimethylbenzene	mg/kg	0.120	0.0	.025	96.0	61.3-122	L720128-01	WG741558
1,2,4-Trichlorobenzene	mg/kg	0.123	0.0	.025	99.0	63.6-143	L720128-01	WG741558
1,2,4-Trimethylbenzene	mg/kg	0.129	0.0	.025	100.	57.4-137	L720128-01	WG741558
1,2-Dibromo-3-Chloropropane	mg/kg	0.109	0.0	.025	87.0	57.3-136	L720128-01	WG741558
1,2-Dibromoethane	mg/kg	0.127	0.0	.025	100.	67.1-125	L720128-01	WG741558
1,2-Dichlorobenzene	mg/kg	0.125	0.0	.025	100.	68.2-123	L720128-01	WG741558
1,2-Dichloroethane	mg/kg	0.120	0.0	.025	96.0	60-126	L720128-01	WG741558
1,2-Dichloropropane	mg/kg	0.123	0.0	.025	99.0	64.2-123	L720128-01	WG741558
1,3,5-Trimethylbenzene	mg/kg	0.127	0.0	.025	100.	63.6-132	L720128-01	WG741558
1,3-Dichlorobenzene	mg/kg	0.129	0.0	.025	100.	63.1-131	L720128-01	WG741558
1,3-Dichloropropane	mg/kg	0.125	0.0	.025	100.	67.9-121	L720128-01	WG741558
1,4-Dichlorobenzene	mg/kg	0.119	0.0	.025	95.0	68.6-123	L720128-01	WG741558
2,2-Dichloropropane	mg/kg	0.115	0.0	.025	92.0	50.5-144	L720128-01	WG741558
2-Butanone (MEK)	mg/kg	0.542	0.0	.125	87.0	22.4-138	L720128-01	WG741558
2-Chloroethyl vinyl ether	mg/kg	0.791	0.0	.125	130.	10-155	L720128-01	WG741558
2-Chlorotoluene	mg/kg	0.132	0.0	.025	110.	63.6-128	L720128-01	WG741558
4-Chlorotoluene	mg/kg	0.131	0.0	.025	100.	65.7-127	L720128-01	WG741558
4-Methyl-2-pentanone (MIBK)	mg/kg	0.550	0.0	.125	88.0	60.8-140	L720128-01	WG741558
Acetone	mg/kg	0.500	0.0132	.125	78.0	10-130	L720128-01	WG741558
Acrylonitrile	mg/kg	0.552	0.0	.125	88.0	49.4-133	L720128-01	WG741558
Benzene	mg/kg	0.112	0.0	.025	90.0	54.3-133	L720128-01	WG741558
Bromobenzene	mg/kg	0.126	0.0	.025	100.	63.9-124	L720128-01	WG741558

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Bromodichloromethane	mg/kg	0.127	0.0	.025	100.	63.9-121	L720128-01	WG741558
Bromoform	mg/kg	0.125	0.0	.025	100.	59.5-134	L720128-01	WG741558
Bromomethane	mg/kg	0.111	0.0	.025	89.0	41.7-155	L720128-01	WG741558
Carbon tetrachloride	mg/kg	0.117	0.0	.025	94.0	55.7-134	L720128-01	WG741558
Chlorobenzene	mg/kg	0.131	0.0	.025	100.	67-125	L720128-01	WG741558
Chlorodibromomethane	mg/kg	0.130	0.0	.025	100.	64.3-125	L720128-01	WG741558
Chloroethane	mg/kg	0.0979	0.0	.025	78.0	51.5-136	L720128-01	WG741558
Chloroform	mg/kg	0.122	0.0	.025	98.0	63-129	L720128-01	WG741558
Chloromethane	mg/kg	0.102	0.0	.025	81.0	42.4-135	L720128-01	WG741558
cis-1,2-Dichloroethene	mg/kg	0.118	0.0	.025	94.0	59.2-129	L720128-01	WG741558
cis-1,3-Dichloropropene	mg/kg	0.122	0.0	.025	98.0	66.4-125	L720128-01	WG741558
Di-isopropyl ether	mg/kg	0.116	0.0	.025	93.0	56.9-136	L720128-01	WG741558
Dibromomethane	mg/kg	0.117	0.0	.025	94.0	68.2-124	L720128-01	WG741558
Dichlorodifluoromethane	mg/kg	0.102	0.0	.025	81.0	40.6-144	L720128-01	WG741558
Ethylbenzene	mg/kg	0.128	0.0	.025	100.	61.4-133	L720128-01	WG741558
Hexachloro-1,3-butadiene	mg/kg	0.106	0.0	.025	85.0	55.1-136	L720128-01	WG741558
Isopropylbenzene	mg/kg	0.131	0.0	.025	100.	66.8-141	L720128-01	WG741558
Methyl tert-butyl ether	mg/kg	0.111	0.0	.025	89.0	57.7-134	L720128-01	WG741558
Methylene Chloride	mg/kg	0.108	0.00158	.025	85.0	58.1-122	L720128-01	WG741558
n-Butylbenzene	mg/kg	0.121	0.0	.025	97.0	62.7-140	L720128-01	WG741558
n-Propylbenzene	mg/kg	0.130	0.0	.025	100.	10-176	L720128-01	WG741558
Naphthalene	mg/kg	0.114	0.0	.025	91.0	58-135	L720128-01	WG741558
p-Isopropyltoluene	mg/kg	0.125	0.0	.025	100.	63.2-139	L720128-01	WG741558
sec-Butylbenzene	mg/kg	0.127	0.0	.025	100.	62.2-136	L720128-01	WG741558
Styrene	mg/kg	0.132	0.0	.025	110.	66.8-133	L720128-01	WG741558
tert-Butylbenzene	mg/kg	0.128	0.0	.025	100.	63.3-134	L720128-01	WG741558
Tetrachloroethene	mg/kg	0.122	0.0	.025	98.0	53-139	L720128-01	WG741558
Toluene	mg/kg	0.119	0.000440	.025	95.0	61.4-130	L720128-01	WG741558
trans-1,2-Dichloroethene	mg/kg	0.109	0.0	.025	87.0	56.5-129	L720128-01	WG741558
trans-1,3-Dichloropropene	mg/kg	0.117	0.0	.025	94.0	64.1-128	L720128-01	WG741558
Trichloroethene	mg/kg	0.118	0.0	.025	94.0	44.1-149	L720128-01	WG741558
Trichlorofluoromethane	mg/kg	0.104	0.0	.025	83.0	49.6-145	L720128-01	WG741558
Vinyl chloride	mg/kg	0.0903	0.0	.025	72.0	47.8-137	L720128-01	WG741558
Xylenes, Total	mg/kg	0.382	0.000560	.075	100.	63.3-131	L720128-01	WG741558
4-Bromofluorobenzene					104.0	71-126		WG741558
Dibromofluoromethane					99.50	78.3-121		WG741558
Toluene-d8					105.0	88.5-111		WG741558
1-Methylnaphthalene	mg/kg	0.0689	0.0	.08	86.0	41.8-133	L720106-05	WG741888
2-Chloronaphthalene	mg/kg	0.0757	0.0	.08	95.0	42.4-129	L720106-05	WG741888
2-Methylnaphthalene	mg/kg	0.0700	0.0	.08	88.0	37.5-137	L720106-05	WG741888
Acenaphthene	mg/kg	0.0758	0.0	.08	95.0	39.4-132	L720106-05	WG741888
Acenaphthylene	mg/kg	0.0700	0.0	.08	88.0	41.3-132	L720106-05	WG741888
Anthracene	mg/kg	0.0809	0.0	.08	100.	36.7-144	L720106-05	WG741888
Benzo(a)anthracene	mg/kg	0.0689	0.0	.08	86.0	28-144	L720106-05	WG741888
Benzo(a)pyrene	mg/kg	0.0722	0.0	.08	90.0	23.8-147	L720106-05	WG741888
Benzo(b)fluoranthene	mg/kg	0.0635	0.0	.08	79.0	18.2-147	L720106-05	WG741888
Benzo(g,h,i)perylene	mg/kg	0.0675	0.0	.08	84.0	9.2-155	L720106-05	WG741888
Benzo(k)fluoranthene	mg/kg	0.0837	0.0	.08	100.	26.5-143	L720106-05	WG741888
Chrysene	mg/kg	0.0830	0.0	.08	100.	27.4-150	L720106-05	WG741888
Dibenz(a,h)anthracene	mg/kg	0.0690	0.0	.08	86.0	13.8-150	L720106-05	WG741888
Fluoranthene	mg/kg	0.0815	0.0	.08	100.	23.2-158	L720106-05	WG741888
Fluorene	mg/kg	0.0733	0.0	.08	92.0	30.8-139	L720106-05	WG741888
Indeno(1,2,3-cd)pyrene	mg/kg	0.0669	0.0	.08	84.0	10.7-155	L720106-05	WG741888
Naphthalene	mg/kg	0.0673	0.0	.08	84.0	34.9-133	L720106-05	WG741888
Phenanthrene	mg/kg	0.0683	0.0	.08	85.0	20.2-150	L720106-05	WG741888
Pyrene	mg/kg	0.0593	0.0	.08	74.0	22.6-151	L720106-05	WG741888
2-Fluorobiphenyl					94.60	38.2-135		WG741888

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Quality Assurance Report
Level II

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Nitrobenzene-d5					96.80	28.4-151		
p-Terphenyl-d14					76.80	34.2-141		
Xylenes, Total	mg/kg	0.342	0.000730	.075	91.0	63.3-131	L720047-01	WG742533
4-Bromofluorobenzene					101.0	71-126		WG742533
Dibromofluoromethane					97.40	78.3-121		WG742533
Toluene-d8					101.0	88.5-111		WG742533
1-Methylnaphthalene	mg/kg	0.0746	0.00998	.08	81.0	41.8-133	L720291-01	WG741972
2-Chloronaphthalene	mg/kg	0.0673	0.0	.08	84.0	42.4-129	L720291-01	WG741972
2-Methylnaphthalene	mg/kg	0.0787	0.0122	.08	83.0	37.5-137	L720291-01	WG741972
Acenaphthene	mg/kg	0.0631	0.0	.08	79.0	39.4-132	L720291-01	WG741972
Acenaphthylene	mg/kg	0.0623	0.0	.08	78.0	41.3-132	L720291-01	WG741972
Anthracene	mg/kg	0.0651	0.0	.08	81.0	36.7-144	L720291-01	WG741972
Benzo(a)anthracene	mg/kg	0.0545	0.0	.08	68.0	28-144	L720291-01	WG741972
Benzo(a)pyrene	mg/kg	0.0533	0.0	.08	67.0	23.8-147	L720291-01	WG741972
Benzo(b)fluoranthene	mg/kg	0.0476	0.0	.08	60.0	18.2-147	L720291-01	WG741972
Benzo(g,h,i)perylene	mg/kg	0.0528	0.0	.08	66.0	9.2-155	L720291-01	WG741972
Benzo(k)fluoranthene	mg/kg	0.0557	0.0	.08	70.0	26.5-143	L720291-01	WG741972
Chrysene	mg/kg	0.0596	0.0	.08	75.0	27.4-150	L720291-01	WG741972
Dibenz(a,h)anthracene	mg/kg	0.0530	0.0	.08	66.0	13.8-150	L720291-01	WG741972
Fluoranthene	mg/kg	0.0600	0.0	.08	75.0	23.2-158	L720291-01	WG741972
Fluorene	mg/kg	0.0633	0.0	.08	79.0	30.8-139	L720291-01	WG741972
Indeno(1,2,3-cd)pyrene	mg/kg	0.0531	0.0	.08	66.0	10.7-155	L720291-01	WG741972
Naphthalene	mg/kg	0.0751	0.0161	.08	74.0	34.9-133	L720291-01	WG741972
Phenanthrene	mg/kg	0.0582	0.0	.08	73.0	20.2-150	L720291-01	WG741972
Pyrene	mg/kg	0.0561	0.0	.08	70.0	22.6-151	L720291-01	WG741972
2-Fluorobiphenyl					85.20	38.2-135		WG741972
Nitrobenzene-d5					79.90	28.4-151		WG741972
p-Terphenyl-d14					76.90	34.2-141		WG741972

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.117	0.134	93.2	64-128	13.7	20	L720128-01	WG741558
1,1,1-Trichloroethane	mg/kg	0.112	0.116	89.3	58.7-134	3.80	20	L720128-01	WG741558
1,1,2,2-Tetrachloroethane	mg/kg	0.113	0.126	90.3	56-132	10.6	22.2	L720128-01	WG741558
1,1,2-Trichloroethane	mg/kg	0.119	0.129	95.1	66.3-125	8.48	20	L720128-01	WG741558
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0993	0.112	79.4	54.8-154	12.1	22.5	L720128-01	WG741558
1,1-Dichloroethane	mg/kg	0.103	0.114	82.0	58.5-132	10.4	20	L720128-01	WG741558
1,1-Dichloroethene	mg/kg	0.0816	0.0904	65.3	51.1-140	10.2	20.2	L720128-01	WG741558
1,1-Dichloropropene	mg/kg	0.108	0.111	86.4	57.3-136	2.43	20	L720128-01	WG741558
1,2,3-Trichlorobenzene	mg/kg	0.0993	0.119	79.5	59.1-138	17.8	23.7	L720128-01	WG741558
1,2,3-Trichloropropane	mg/kg	0.110	0.120	87.8	61.4-128	9.08	22.4	L720128-01	WG741558
1,2,3-Trimethylbenzene	mg/kg	0.105	0.120	84.2	61.3-122	13.3	20	L720128-01	WG741558
1,2,4-Trichlorobenzene	mg/kg	0.105	0.123	83.6	63.6-143	16.4	21.9	L720128-01	WG741558
1,2,4-Trimethylbenzene	mg/kg	0.112	0.129	89.4	57.4-137	14.2	20	L720128-01	WG741558
1,2-Dibromo-3-Chloropropane	mg/kg	0.0970	0.109	77.6	57.3-136	11.2	27	L720128-01	WG741558
1,2-Dibromoethane	mg/kg	0.113	0.127	90.5	67.1-125	11.8	20	L720128-01	WG741558
1,2-Dichlorobenzene	mg/kg	0.109	0.125	87.4	68.2-123	13.3	20	L720128-01	WG741558
1,2-Dichloroethane	mg/kg	0.111	0.120	88.6	60-126	8.08	20	L720128-01	WG741558
1,2-Dichloropropane	mg/kg	0.111	0.123	89.0	64.2-123	10.3	20	L720128-01	WG741558
1,3,5-Trimethylbenzene	mg/kg	0.112	0.127	89.7	63.6-132	12.8	20.5	L720128-01	WG741558
1,3-Dichlorobenzene	mg/kg	0.112	0.129	89.5	63.1-131	14.6	20	L720128-01	WG741558
1,3-Dichloropropane	mg/kg	0.110	0.125	88.1	67.9-121	12.7	20	L720128-01	WG741558
1,4-Dichlorobenzene	mg/kg	0.103	0.119	82.0	68.6-123	14.9	20	L720128-01	WG741558
2,2-Dichloropropane	mg/kg	0.104	0.115	83.5	50.5-144	10.1	21.9	L720128-01	WG741558
2-Butanone (MEK)	mg/kg	0.488	0.542	78.0	22.4-138	10.6	27	L720128-01	WG741558
2-Chloroethyl vinyl ether	mg/kg	0.694	0.791	111.	10-155	13.0	40	L720128-01	WG741558

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Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
2-Chlorotoluene	mg/kg	0.115	0.132	91.9	63.6-128	14.2	20	L720128-01	WG741558
4-Chlorotoluene	mg/kg	0.114	0.131	91.2	65.7-127	14.2	20	L720128-01	WG741558
4-Methyl-2-pentanone (MIBK)	mg/kg	0.506	0.550	81.0	60.8-140	8.39	25.1	L720128-01	WG741558
Acetone	mg/kg	0.436	0.500	67.6	10-130	13.7	27.9	L720128-01	WG741558
Acrylonitrile	mg/kg	0.498	0.552	79.6	49.4-133	10.4	25.3	L720128-01	WG741558
Benzene	mg/kg	0.110	0.112	87.8	54.3-133	2.01	20	L720128-01	WG741558
Bromobenzene	mg/kg	0.110	0.126	88.1	63.9-124	13.8	20	L720128-01	WG741558
Bromodichloromethane	mg/kg	0.113	0.127	90.8	63.9-121	11.4	20	L720128-01	WG741558
Bromoform	mg/kg	0.111	0.125	88.5	59.5-134	12.0	20.8	L720128-01	WG741558
Bromomethane	mg/kg	0.0995	0.111	79.6	41.7-155	10.9	20.5	L720128-01	WG741558
Carbon tetrachloride	mg/kg	0.109	0.117	87.1	55.7-134	7.63	20.3	L720128-01	WG741558
Chlorobenzene	mg/kg	0.114	0.131	91.4	67-125	13.9	20	L720128-01	WG741558
Chlorodibromomethane	mg/kg	0.112	0.130	89.6	64.3-125	14.8	20	L720128-01	WG741558
Chloroethane	mg/kg	0.0894	0.0979	71.5	51.5-136	9.05	20.8	L720128-01	WG741558
Chloroform	mg/kg	0.111	0.122	89.0	63-129	9.17	20	L720128-01	WG741558
Chloromethane	mg/kg	0.0916	0.102	73.3	42.4-135	10.5	20	L720128-01	WG741558
cis-1,2-Dichloroethene	mg/kg	0.106	0.118	85.0	59.2-129	10.2	20	L720128-01	WG741558
cis-1,3-Dichloropropene	mg/kg	0.111	0.122	88.8	66.4-125	9.35	20	L720128-01	WG741558
Di-isopropyl ether	mg/kg	0.100	0.116	80.2	56.9-136	15.0	20	L720128-01	WG741558
Dibromomethane	mg/kg	0.106	0.117	84.9	68.2-124	9.72	20	L720128-01	WG741558
Dichlorodifluoromethane	mg/kg	0.0961	0.102	76.9	40.6-144	5.51	20.2	L720128-01	WG741558
Ethylbenzene	mg/kg	0.114	0.128	90.9	61.4-133	11.9	20	L720128-01	WG741558
Hexachloro-1,3-butadiene	mg/kg	0.0908	0.106	72.6	55.1-136	15.6	23.6	L720128-01	WG741558
Isopropylbenzene	mg/kg	0.114	0.131	91.2	66.8-141	13.8	20	L720128-01	WG741558
Methyl tert-butyl ether	mg/kg	0.0994	0.111	79.5	57.7-134	10.9	20	L720128-01	WG741558
Methylene Chloride	mg/kg	0.0951	0.108	74.8	58.1-122	12.9	20	L720128-01	WG741558
n-Butylbenzene	mg/kg	0.105	0.121	83.7	62.7-140	14.9	20	L720128-01	WG741558
n-Propylbenzene	mg/kg	0.112	0.130	89.2	10-176	15.1	26.6	L720128-01	WG741558
Naphthalene	mg/kg	0.100	0.114	80.1	58-135	12.9	25.5	L720128-01	WG741558
p-Isopropyltoluene	mg/kg	0.108	0.125	86.6	63.2-139	14.7	20.4	L720128-01	WG741558
sec-Butylbenzene	mg/kg	0.111	0.127	88.7	62.2-136	13.2	20.3	L720128-01	WG741558
Styrene	mg/kg	0.114	0.132	91.6	66.8-133	14.2	20	L720128-01	WG741558
tert-Butylbenzene	mg/kg	0.112	0.128	89.9	63.3-134	13.1	20.3	L720128-01	WG741558
Tetrachloroethene	mg/kg	0.112	0.122	89.6	53-139	8.86	20	L720128-01	WG741558
Toluene	mg/kg	0.110	0.119	88.0	61.4-130	7.57	20	L720128-01	WG741558
trans-1,2-Dichloroethene	mg/kg	0.0944	0.109	75.5	56.5-129	14.4	20	L720128-01	WG741558
trans-1,3-Dichloropropene	mg/kg	0.104	0.117	82.9	64.1-128	12.4	20	L720128-01	WG741558
Trichloroethene	mg/kg	0.111	0.118	89.0	44.1-149	5.74	20	L720128-01	WG741558
Trichlorofluoromethane	mg/kg	0.0945	0.104	75.6	49.6-145	9.50	21.2	L720128-01	WG741558
Vinyl chloride	mg/kg	0.0832	0.0903	66.6	47.8-137	8.18	20	L720128-01	WG741558
Xylenes, Total	mg/kg	0.336	0.382	89.5	63.3-131	12.9	20	L720128-01	WG741558
4-Bromofluorobenzene				104.0	71-126				WG741558
Dibromofluoromethane				99.30	78.3-121				WG741558
Toluene-d8				105.0	88.5-111				WG741558
1-Methylnaphthalene	mg/kg	0.0723	0.0689	90.3	41.8-133	4.79	20.9	L720106-05	WG741888
2-Chloronaphthalene	mg/kg	0.0780	0.0757	97.5	42.4-129	2.98	20	L720106-05	WG741888
2-Methylnaphthalene	mg/kg	0.0733	0.0700	91.6	37.5-137	4.61	20.4	L720106-05	WG741888
Acenaphthene	mg/kg	0.0778	0.0758	97.3	39.4-132	2.71	20	L720106-05	WG741888
Acenaphthylene	mg/kg	0.0721	0.0700	90.2	41.3-132	3.04	20	L720106-05	WG741888
Anthracene	mg/kg	0.0817	0.0809	102.	36.7-144	0.990	20.7	L720106-05	WG741888
Benzo(a)anthracene	mg/kg	0.0713	0.0689	89.1	28-144	3.40	24.7	L720106-05	WG741888
Benzo(a)pyrene	mg/kg	0.0745	0.0722	93.1	23.8-147	3.18	25.3	L720106-05	WG741888
Benzo(b)fluoranthene	mg/kg	0.0673	0.0635	84.1	18.2-147	5.79	29.5	L720106-05	WG741888
Benzo(g,h,i)perylene	mg/kg	0.0704	0.0675	88.0	9.2-155	4.19	29.2	L720106-05	WG741888
Benzo(k)fluoranthene	mg/kg	0.0859	0.0837	107.	26.5-143	2.54	26.1	L720106-05	WG741888
Chrysene	mg/kg	0.0853	0.0830	107.	27.4-150	2.75	25.7	L720106-05	WG741888
Dibenz(a,h)anthracene	mg/kg	0.0719	0.0690	89.8	13.8-150	4.11	25.8	L720106-05	WG741888

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L720234

September 15, 2014

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Fluoranthene	mg/kg	0.0850	0.0815	106.	23.2-158	4.22	26	L720106-05	WG741888
Fluorene	mg/kg	0.0751	0.0733	93.9	30.8-139	2.41	20	L720106-05	WG741888
Indeno(1,2,3-cd)pyrene	mg/kg	0.0697	0.0669	87.1	10.7-155	4.00	26.9	L720106-05	WG741888
Naphthalene	mg/kg	0.0716	0.0673	89.6	34.9-133	6.18	20.4	L720106-05	WG741888
Phenanthrene	mg/kg	0.0718	0.0683	89.8	20.2-150	5.03	24.6	L720106-05	WG741888
Pyrene	mg/kg	0.0621	0.0593	77.6	22.6-151	4.62	25.1	L720106-05	WG741888
2-Fluorobiphenyl				93.30	38.2-135				WG741888
Nitrobenzene-d5				97.40	28.4-151				WG741888
p-Terphenyl-d14				76.50	34.2-141				WG741888
Xylenes, Total	mg/kg	0.351	0.342	93.3	63.3-131	2.54	20	L720047-01	WG742533
4-Bromofluorobenzene				98.90	71-126				WG742533
Dibromofluoromethane				97.60	78.3-121				WG742533
Toluene-d8				102.0	88.5-111				WG742533
1-Methylnaphthalene	mg/kg	0.0708	0.0746	76.0	41.8-133	5.31	20.9	L720291-01	WG741972
2-Chloronaphthalene	mg/kg	0.0654	0.0673	81.7	42.4-129	2.94	20	L720291-01	WG741972
2-Methylnaphthalene	mg/kg	0.0741	0.0787	77.3	37.5-137	6.04	20.4	L720291-01	WG741972
Acenaphthene	mg/kg	0.0606	0.0631	75.7	39.4-132	4.09	20	L720291-01	WG741972
Acenaphthylene	mg/kg	0.0597	0.0623	74.6	41.3-132	4.27	20	L720291-01	WG741972
Anthracene	mg/kg	0.0604	0.0651	75.4	36.7-144	7.53	20.7	L720291-01	WG741972
Benzo(a)anthracene	mg/kg	0.0512	0.0545	64.0	28-144	6.28	24.7	L720291-01	WG741972
Benzo(a)pyrene	mg/kg	0.0490	0.0533	61.2	23.8-147	8.44	25.3	L720291-01	WG741972
Benzo(b)fluoranthene	mg/kg	0.0443	0.0476	55.4	18.2-147	7.15	29.5	L720291-01	WG741972
Benzo(g,h,i)perylene	mg/kg	0.0484	0.0528	60.5	9.2-155	8.70	29.2	L720291-01	WG741972
Benzo(k)fluoranthene	mg/kg	0.0517	0.0557	64.6	26.5-143	7.47	26.1	L720291-01	WG741972
Chrysene	mg/kg	0.0560	0.0596	70.0	27.4-150	6.34	25.7	L720291-01	WG741972
Dibenz(a,h)anthracene	mg/kg	0.0488	0.0530	61.0	13.8-150	8.36	25.8	L720291-01	WG741972
Fluoranthene	mg/kg	0.0530	0.0600	66.2	23.2-158	12.5	26	L720291-01	WG741972
Fluorene	mg/kg	0.0603	0.0633	75.3	30.8-139	4.93	20	L720291-01	WG741972
Indeno(1,2,3-cd)pyrene	mg/kg	0.0489	0.0531	61.2	10.7-155	8.10	26.9	L720291-01	WG741972
Naphthalene	mg/kg	0.0736	0.0751	71.8	34.9-133	2.03	20.4	L720291-01	WG741972
Phenanthrene	mg/kg	0.0553	0.0582	69.2	20.2-150	5.07	24.6	L720291-01	WG741972
Pyrene	mg/kg	0.0520	0.0561	65.0	22.6-151	7.54	25.1	L720291-01	WG741972
2-Fluorobiphenyl				87.00	38.2-135				WG741972
Nitrobenzene-d5				84.40	28.4-151				WG741972
p-Terphenyl-d14				72.60	34.2-141				WG741972

Batch number /Run number / Sample number cross reference

WG741558: R2987799: L720234-01 02 03 04 05 06
WG741888: R2988055: L720234-01
WG742533: R2988610: L720234-01
WG741972: R2989384 R2989407: L720234-03 04 05 06

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L720234

September 15, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Est. 1970

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

Report Summary

Monday September 29, 2014

Report Number: L722204
Samples Received: 09/17/14
Client Project: 5047-RC-C100

Description: 13th Street Plaza

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Darren Reeder , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-01

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW1_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 12:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	09/21/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	09/21/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	09/21/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	09/21/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	09/21/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	09/21/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	09/21/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	09/21/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	09/21/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	09/21/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	09/21/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	09/21/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	09/21/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	09/21/14	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 09/29/14 11:45 Printed: 09/29/14 11:46

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-01

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW1_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 12:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	09/21/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	09/21/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Naphthalene	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	09/21/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	09/21/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	09/21/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	09/21/14	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	09/21/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	09/21/14	1
Surrogate Recovery								
Toluene-d8	98.4			% Rec.		8260B	09/21/14	1
Dibromofluoromethane	99.3			% Rec.		8260B	09/21/14	1
4-Bromofluorobenzene	105.			% Rec.		8260B	09/21/14	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0000076	0.000050	mg/l		8270C-S	09/19/14	1
Acenaphthene	U	0.0000082	0.000050	mg/l		8270C-S	09/19/14	1
Acenaphthylene	U	0.0000068	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(a)anthracene	U	0.000012	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(a)pyrene	U	0.000012	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(b)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(g,h,i)perylene	U	0.000011	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	09/19/14	1
Chrysene	U	0.000011	0.000050	mg/l		8270C-S	09/19/14	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	09/19/14	1
Fluoranthene	U	0.000016	0.000050	mg/l		8270C-S	09/19/14	1
Fluorene	U	0.0000085	0.000050	mg/l		8270C-S	09/19/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-01

Site ID : 13TH STREET PLAZA

Project # : 5047-RC-C100

Date Received : September 17, 2014
Description : 13th Street Plaza

Sample ID : COB_MW1_091514

Collected By : Bransen Fields
Collection Date : 09/15/14 12:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000015	0.000050	mg/l		8270C-S	09/19/14	1
Naphthalene	0.000022	0.000020	0.00025	mg/l	J	8270C-S	09/19/14	1
Phenanthrene	U	0.0000082	0.000050	mg/l		8270C-S	09/19/14	1
Pyrene	U	0.000012	0.000050	mg/l		8270C-S	09/19/14	1
1-Methylnaphthalene	U	0.0000082	0.00025	mg/l		8270C-S	09/19/14	1
2-Methylnaphthalene	U	0.0000090	0.00025	mg/l		8270C-S	09/19/14	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	09/19/14	1
Surrogate Recovery								
Nitrobenzene-d5	95.5			% Rec.		8270C-S	09/19/14	1
2-Fluorobiphenyl	103.			% Rec.		8270C-S	09/19/14	1
p-Terphenyl-d14	95.7			% Rec.		8270C-S	09/19/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-02

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW2_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 12:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	09/21/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	09/21/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	09/21/14	1
Benzene	0.00092	0.00033	0.0010	mg/l	J	8260B	09/21/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	09/21/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	09/21/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	09/21/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	09/21/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	09/21/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	09/21/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	09/21/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	09/21/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	09/21/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	09/21/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Isopropylbenzene	0.00049	0.00033	0.0010	mg/l	J	8260B	09/21/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-02

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW2_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 12:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	09/21/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	09/21/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Naphthalene	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	09/21/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	09/21/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	09/21/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	09/21/14	1
1,2,4-Trimethylbenzene	0.0011	0.00037	0.0010	mg/l		8260B	09/21/14	1
1,2,3-Trimethylbenzene	0.00098	0.00032	0.0010	mg/l	J	8260B	09/21/14	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	09/21/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Xylenes, Total	0.0048	0.0011	0.0030	mg/l		8260B	09/21/14	1
Surrogate Recovery								
Toluene-d8	96.8			% Rec.		8260B	09/21/14	1
Dibromofluoromethane	102.			% Rec.		8260B	09/21/14	1
4-Bromofluorobenzene	96.9			% Rec.		8260B	09/21/14	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.000042	0.0000076	0.000050	mg/l	J	8270C-S	09/19/14	1
Acenaphthene	0.00011	0.0000082	0.000050	mg/l		8270C-S	09/19/14	1
Acenaphthylene	0.00027	0.0000068	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(a)anthracene	0.000072	0.000012	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(a)pyrene	0.00011	0.000012	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(b)fluoranthene	0.000089	0.000014	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(g,h,i)perylene	0.000074	0.000011	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(k)fluoranthene	0.000030	0.000014	0.000050	mg/l	J	8270C-S	09/19/14	1
Chrysene	0.000060	0.000011	0.000050	mg/l		8270C-S	09/19/14	1
Dibenz(a,h)anthracene	0.0000049	0.0000040	0.000050	mg/l	J	8270C-S	09/19/14	1
Fluoranthene	0.000076	0.000016	0.000050	mg/l		8270C-S	09/19/14	1
Fluorene	0.000056	0.0000085	0.000050	mg/l		8270C-S	09/19/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-02

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW2_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 12:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000052	0.000015	0.000050	mg/l		8270C-S	09/19/14	1
Naphthalene	0.00060	0.000020	0.00025	mg/l		8270C-S	09/19/14	1
Phenanthrene	0.000033	0.0000082	0.000050	mg/l	J	8270C-S	09/19/14	1
Pyrene	0.00040	0.000012	0.000050	mg/l		8270C-S	09/19/14	1
1-Methylnaphthalene	0.00020	0.0000082	0.00025	mg/l	J	8270C-S	09/19/14	1
2-Methylnaphthalene	0.000013	0.0000090	0.00025	mg/l	J	8270C-S	09/19/14	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	09/19/14	1
Surrogate Recovery								
Nitrobenzene-d5	101.			% Rec.		8270C-S	09/19/14	1
2-Fluorobiphenyl	108.			% Rec.		8270C-S	09/19/14	1
p-Terphenyl-d14	102.			% Rec.		8270C-S	09/19/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-03

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW3R_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 10:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.25	1.3	mg/l		8260B	09/21/14	25
Acrolein	U	0.22	1.3	mg/l		8260B	09/21/14	25
Acrylonitrile	U	0.047	0.25	mg/l		8260B	09/21/14	25
Benzene	0.11	0.0083	0.025	mg/l		8260B	09/21/14	25
Bromobenzene	U	0.0088	0.025	mg/l		8260B	09/21/14	25
Bromodichloromethane	U	0.0095	0.025	mg/l		8260B	09/21/14	25
Bromoform	U	0.012	0.025	mg/l		8260B	09/21/14	25
Bromomethane	U	0.022	0.13	mg/l		8260B	09/21/14	25
n-Butylbenzene	U	0.0090	0.025	mg/l		8260B	09/21/14	25
sec-Butylbenzene	U	0.0091	0.025	mg/l		8260B	09/21/14	25
tert-Butylbenzene	U	0.010	0.025	mg/l		8260B	09/21/14	25
Carbon tetrachloride	U	0.0095	0.025	mg/l		8260B	09/21/14	25
Chlorobenzene	U	0.0087	0.025	mg/l		8260B	09/21/14	25
Chlorodibromomethane	U	0.0082	0.025	mg/l		8260B	09/21/14	25
Chloroethane	U	0.011	0.13	mg/l		8260B	09/21/14	25
2-Chloroethyl vinyl ether	U	0.075	1.3	mg/l		8260B	09/21/14	25
Chloroform	U	0.0081	0.13	mg/l		8260B	09/21/14	25
Chloromethane	U	0.0069	0.063	mg/l		8260B	09/21/14	25
2-Chlorotoluene	U	0.0094	0.025	mg/l		8260B	09/21/14	25
4-Chlorotoluene	U	0.0088	0.025	mg/l		8260B	09/21/14	25
1,2-Dibromo-3-Chloropropane	U	0.033	0.13	mg/l		8260B	09/21/14	25
1,2-Dibromoethane	U	0.0095	0.025	mg/l		8260B	09/21/14	25
Dibromomethane	U	0.0086	0.025	mg/l		8260B	09/21/14	25
1,2-Dichlorobenzene	U	0.0087	0.025	mg/l		8260B	09/21/14	25
1,3-Dichlorobenzene	U	0.0055	0.025	mg/l		8260B	09/21/14	25
1,4-Dichlorobenzene	U	0.0068	0.025	mg/l		8260B	09/21/14	25
Dichlorodifluoromethane	U	0.014	0.13	mg/l		8260B	09/21/14	25
1,1-Dichloroethane	U	0.0065	0.025	mg/l		8260B	09/21/14	25
1,2-Dichloroethane	U	0.0090	0.025	mg/l		8260B	09/21/14	25
1,1-Dichloroethene	U	0.010	0.025	mg/l		8260B	09/21/14	25
cis-1,2-Dichloroethene	U	0.0065	0.025	mg/l		8260B	09/21/14	25
trans-1,2-Dichloroethene	U	0.0099	0.025	mg/l		8260B	09/21/14	25
1,2-Dichloropropane	U	0.0076	0.025	mg/l		8260B	09/21/14	25
1,1-Dichloropropene	U	0.0088	0.025	mg/l		8260B	09/21/14	25
1,3-Dichloropropane	U	0.0092	0.025	mg/l		8260B	09/21/14	25
cis-1,3-Dichloropropene	U	0.010	0.025	mg/l		8260B	09/21/14	25
trans-1,3-Dichloropropene	U	0.010	0.025	mg/l		8260B	09/21/14	25
2,2-Dichloropropane	U	0.0080	0.025	mg/l		8260B	09/21/14	25
Di-isopropyl ether	U	0.0080	0.025	mg/l		8260B	09/21/14	25
Ethylbenzene	0.59	0.0096	0.025	mg/l		8260B	09/21/14	25
Hexachloro-1,3-butadiene	U	0.0064	0.025	mg/l		8260B	09/21/14	25
Isopropylbenzene	0.057	0.0082	0.025	mg/l		8260B	09/21/14	25

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-03

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW3R_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 10:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.022	0.0088	0.025	mg/l	J	8260B	09/21/14	25
2-Butanone (MEK)	U	0.098	0.25	mg/l		8260B	09/21/14	25
Methylene Chloride	U	0.025	0.13	mg/l		8260B	09/21/14	25
4-Methyl-2-pentanone (MIBK)	U	0.054	0.25	mg/l		8260B	09/21/14	25
Methyl tert-butyl ether	U	0.0092	0.025	mg/l		8260B	09/21/14	25
Naphthalene	6.7	0.10	0.50	mg/l		8260B	09/23/14	100
n-Propylbenzene	0.017	0.0087	0.025	mg/l	J	8260B	09/21/14	25
Styrene	0.0092	0.0077	0.025	mg/l	J	8260B	09/21/14	25
1,1,1,2-Tetrachloroethane	U	0.0096	0.025	mg/l		8260B	09/21/14	25
1,1,2,2-Tetrachloroethane	U	0.015	0.025	mg/l		8260B	09/21/14	25
1,1,2-Trichlorotrifluoroethane	U	0.0076	0.025	mg/l		8260B	09/21/14	25
Tetrachloroethene	U	0.0093	0.025	mg/l		8260B	09/21/14	25
Toluene	0.14	0.020	0.13	mg/l		8260B	09/21/14	25
1,2,3-Trichlorobenzene	U	0.0058	0.025	mg/l		8260B	09/21/14	25
1,2,4-Trichlorobenzene	U	0.0054	0.025	mg/l		8260B	09/21/14	25
1,1,1-Trichloroethane	U	0.0080	0.025	mg/l		8260B	09/21/14	25
1,1,2-Trichloroethane	U	0.0096	0.025	mg/l		8260B	09/21/14	25
Trichloroethene	U	0.010	0.025	mg/l		8260B	09/21/14	25
Trichlorofluoromethane	U	0.030	0.13	mg/l		8260B	09/21/14	25
1,2,3-Trichloropropane	U	0.020	0.063	mg/l	J4	8260B	09/21/14	25
1,2,4-Trimethylbenzene	0.23	0.0093	0.025	mg/l		8260B	09/21/14	25
1,2,3-Trimethylbenzene	0.077	0.0080	0.025	mg/l		8260B	09/21/14	25
1,3,5-Trimethylbenzene	0.082	0.0097	0.025	mg/l		8260B	09/21/14	25
Vinyl chloride	U	0.0065	0.025	mg/l		8260B	09/21/14	25
Xylenes, Total	0.49	0.026	0.075	mg/l		8260B	09/21/14	25
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	09/21/14	25
Dibromofluoromethane	105.			% Rec.		8260B	09/21/14	25
4-Bromofluorobenzene	103.			% Rec.		8260B	09/21/14	25
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.022	0.00076	0.0050	mg/l		8270C-S	09/23/14	100
Acenaphthene	0.44	0.00082	0.0050	mg/l		8270C-S	09/23/14	100
Acenaphthylene	0.078	0.00068	0.0050	mg/l		8270C-S	09/23/14	100
Benzo(a)anthracene	0.0056	0.0012	0.0050	mg/l		8270C-S	09/23/14	100
Benzo(a)pyrene	0.0033	0.0012	0.0050	mg/l	J	8270C-S	09/23/14	100
Benzo(b)fluoranthene	0.0026	0.0014	0.0050	mg/l	J	8270C-S	09/23/14	100
Benzo(g,h,i)perylene	0.0012	0.0011	0.0050	mg/l	J	8270C-S	09/23/14	100
Benzo(k)fluoranthene	U	0.0014	0.0050	mg/l		8270C-S	09/23/14	100
Chrysene	0.0042	0.0011	0.0050	mg/l	J	8270C-S	09/23/14	100
Dibenz(a,h)anthracene	U	0.00040	0.0050	mg/l		8270C-S	09/23/14	100
Fluoranthene	0.0093	0.0016	0.0050	mg/l		8270C-S	09/23/14	100
Fluorene	0.11	0.00085	0.0050	mg/l		8270C-S	09/23/14	100

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RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-03

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW3R_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 10:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.0015	0.0050	mg/l		8270C-S	09/23/14	100
Naphthalene	7.7	0.0020	0.025	mg/l		8270C-S	09/23/14	100
Phenanthrene	0.11	0.00082	0.0050	mg/l		8270C-S	09/23/14	100
Pyrene	0.017	0.0012	0.0050	mg/l		8270C-S	09/23/14	100
1-Methylnaphthalene	1.4	0.00082	0.025	mg/l		8270C-S	09/23/14	100
2-Methylnaphthalene	1.5	0.00090	0.025	mg/l		8270C-S	09/23/14	100
2-Chloronaphthalene	U	0.00065	0.025	mg/l		8270C-S	09/23/14	100
Surrogate Recovery								
Nitrobenzene-d5	90.9			% Rec.		8270C-S	09/23/14	100
2-Fluorobiphenyl	124.			% Rec.		8270C-S	09/23/14	100
p-Terphenyl-d14	115.			% Rec.		8270C-S	09/23/14	100

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-04

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW4_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 09:20

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	09/21/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	09/21/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	09/21/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	09/21/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	09/21/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	09/21/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	09/21/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	09/21/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	09/21/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	09/21/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	09/21/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	09/21/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	09/21/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	09/21/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-04

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW4_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 09:20

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	09/21/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	09/21/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Naphthalene	0.0050	0.0010	0.0050	mg/l	J	8260B	09/21/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	09/21/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	09/21/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	09/21/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J4	8260B	09/21/14	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	09/21/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	09/21/14	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	09/21/14	1
Dibromofluoromethane	108.			% Rec.		8260B	09/21/14	1
4-Bromofluorobenzene	100.			% Rec.		8260B	09/21/14	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.000022	0.0000076	0.000050	mg/l	J	8270C-S	09/21/14	1
Acenaphthene	U	0.0000082	0.000050	mg/l		8270C-S	09/21/14	1
Acenaphthylene	U	0.0000068	0.000050	mg/l		8270C-S	09/21/14	1
Benzo(a)anthracene	U	0.000012	0.000050	mg/l		8270C-S	09/23/14	1
Benzo(a)pyrene	0.000033	0.000012	0.000050	mg/l	J	8270C-S	09/21/14	1
Benzo(b)fluoranthene	0.000018	0.000014	0.000050	mg/l	J	8270C-S	09/21/14	1
Benzo(g,h,i)perylene	0.000067	0.000011	0.000050	mg/l		8270C-S	09/21/14	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	09/21/14	1
Chrysene	U	0.000011	0.000050	mg/l		8270C-S	09/23/14	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	09/21/14	1
Fluoranthene	0.000018	0.000016	0.000050	mg/l	J	8270C-S	09/21/14	1
Fluorene	0.000020	0.0000085	0.000050	mg/l	J	8270C-S	09/21/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-04

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW4_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 09:20

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000042	0.000015	0.000050	mg/l	J	8270C-S	09/21/14	1
Naphthalene	0.00011	0.000020	0.00025	mg/l	J	8270C-S	09/21/14	1
Phenanthrene	0.000013	0.0000082	0.000050	mg/l	J	8270C-S	09/21/14	1
Pyrene	0.000032	0.000012	0.000050	mg/l	J	8270C-S	09/23/14	1
1-Methylnaphthalene	0.000016	0.0000082	0.00025	mg/l	J	8270C-S	09/21/14	1
2-Methylnaphthalene	0.000036	0.0000090	0.00025	mg/l	J	8270C-S	09/21/14	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	09/21/14	1
Surrogate Recovery								
Nitrobenzene-d5	102.			% Rec.		8270C-S	09/21/14	1
2-Fluorobiphenyl	105.			% Rec.		8270C-S	09/21/14	1
p-Terphenyl-d14	101.			% Rec.		8270C-S	09/23/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-05

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW5_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 14:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	09/21/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	09/21/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	09/21/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	09/21/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	09/21/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	09/21/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	09/21/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	09/21/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	09/21/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	09/21/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	09/21/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	09/21/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	09/21/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	09/21/14	1

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-05

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW5_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 14:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	09/21/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	09/21/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Naphthalene	0.0019	0.0010	0.0050	mg/l	J	8260B	09/21/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	09/21/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	09/21/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	09/21/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J4	8260B	09/21/14	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
1,2,3-Trimethylbenzene	0.00046	0.00032	0.0010	mg/l	J	8260B	09/21/14	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	09/21/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	09/21/14	1
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	09/21/14	1
Dibromofluoromethane	108.			% Rec.		8260B	09/21/14	1
4-Bromofluorobenzene	105.			% Rec.		8260B	09/21/14	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0092	0.0000076	0.000050	mg/l		8270C-S	09/19/14	1
Acenaphthene	0.013	0.0000082	0.000050	mg/l		8270C-S	09/19/14	1
Acenaphthylene	0.0082	0.0000068	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(a)anthracene	0.0082	0.000012	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(a)pyrene	0.0084	0.000012	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(b)fluoranthene	0.0059	0.000014	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(g,h,i)perylene	0.0039	0.000011	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(k)fluoranthene	0.0016	0.000014	0.000050	mg/l		8270C-S	09/19/14	1
Chrysene	0.0079	0.000011	0.000050	mg/l		8270C-S	09/19/14	1
Dibenz(a,h)anthracene	0.00029	0.0000040	0.000050	mg/l		8270C-S	09/19/14	1
Fluoranthene	0.015	0.000016	0.000050	mg/l		8270C-S	09/19/14	1
Fluorene	0.0068	0.0000085	0.000050	mg/l		8270C-S	09/19/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-05

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW5_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 14:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.0030	0.000015	0.000050	mg/l		8270C-S	09/19/14	1
Naphthalene	0.0013	0.000020	0.00025	mg/l		8270C-S	09/19/14	1
Phenanthrene	0.028	0.0000082	0.000050	mg/l		8270C-S	09/19/14	1
Pyrene	0.029	0.000012	0.000050	mg/l		8270C-S	09/19/14	1
1-Methylnaphthalene	0.014	0.0000082	0.00025	mg/l		8270C-S	09/19/14	1
2-Methylnaphthalene	0.0024	0.0000090	0.00025	mg/l		8270C-S	09/19/14	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	09/19/14	1
Surrogate Recovery								
Nitrobenzene-d5	120.			% Rec.		8270C-S	09/19/14	1
2-Fluorobiphenyl	116.			% Rec.		8270C-S	09/19/14	1
p-Terphenyl-d14	99.7			% Rec.		8270C-S	09/19/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-06

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW6_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 15:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/l		8260B	09/23/14	5
Acrolein	U	0.044	0.25	mg/l		8260B	09/23/14	5
Acrylonitrile	U	0.0094	0.050	mg/l		8260B	09/23/14	5
Benzene	U	0.0016	0.0050	mg/l		8260B	09/23/14	5
Bromobenzene	U	0.0018	0.0050	mg/l		8260B	09/23/14	5
Bromodichloromethane	U	0.0019	0.0050	mg/l		8260B	09/23/14	5
Bromoform	U	0.0023	0.0050	mg/l		8260B	09/23/14	5
Bromomethane	U	0.0043	0.025	mg/l		8260B	09/23/14	5
n-Butylbenzene	U	0.0018	0.0050	mg/l		8260B	09/23/14	5
sec-Butylbenzene	U	0.0018	0.0050	mg/l		8260B	09/23/14	5
tert-Butylbenzene	U	0.0020	0.0050	mg/l		8260B	09/23/14	5
Carbon tetrachloride	U	0.0019	0.0050	mg/l		8260B	09/23/14	5
Chlorobenzene	U	0.0017	0.0050	mg/l		8260B	09/23/14	5
Chlorodibromomethane	U	0.0016	0.0050	mg/l		8260B	09/23/14	5
Chloroethane	U	0.0023	0.025	mg/l		8260B	09/23/14	5
2-Chloroethyl vinyl ether	U	0.015	0.25	mg/l		8260B	09/23/14	5
Chloroform	U	0.0016	0.025	mg/l		8260B	09/23/14	5
Chloromethane	U	0.0014	0.013	mg/l		8260B	09/23/14	5
2-Chlorotoluene	U	0.0019	0.0050	mg/l		8260B	09/23/14	5
4-Chlorotoluene	U	0.0018	0.0050	mg/l		8260B	09/23/14	5
1,2-Dibromo-3-Chloropropane	U	0.0066	0.025	mg/l		8260B	09/23/14	5
1,2-Dibromoethane	U	0.0019	0.0050	mg/l		8260B	09/23/14	5
Dibromomethane	U	0.0017	0.0050	mg/l		8260B	09/23/14	5
1,2-Dichlorobenzene	U	0.0017	0.0050	mg/l		8260B	09/23/14	5
1,3-Dichlorobenzene	U	0.0011	0.0050	mg/l		8260B	09/23/14	5
1,4-Dichlorobenzene	U	0.0014	0.0050	mg/l		8260B	09/23/14	5
Dichlorodifluoromethane	U	0.0028	0.025	mg/l		8260B	09/23/14	5
1,1-Dichloroethane	U	0.0013	0.0050	mg/l		8260B	09/23/14	5
1,2-Dichloroethane	U	0.0018	0.0050	mg/l		8260B	09/23/14	5
1,1-Dichloroethene	U	0.0020	0.0050	mg/l		8260B	09/23/14	5
cis-1,2-Dichloroethene	U	0.0013	0.0050	mg/l		8260B	09/23/14	5
trans-1,2-Dichloroethene	U	0.0020	0.0050	mg/l		8260B	09/23/14	5
1,2-Dichloropropane	U	0.0015	0.0050	mg/l		8260B	09/23/14	5
1,1-Dichloropropene	U	0.0018	0.0050	mg/l		8260B	09/23/14	5
1,3-Dichloropropane	U	0.0018	0.0050	mg/l		8260B	09/23/14	5
cis-1,3-Dichloropropene	U	0.0021	0.0050	mg/l		8260B	09/23/14	5
trans-1,3-Dichloropropene	U	0.0021	0.0050	mg/l		8260B	09/23/14	5
2,2-Dichloropropane	U	0.0016	0.0050	mg/l		8260B	09/23/14	5
Di-isopropyl ether	U	0.0016	0.0050	mg/l		8260B	09/23/14	5
Ethylbenzene	0.015	0.0019	0.0050	mg/l		8260B	09/23/14	5
Hexachloro-1,3-butadiene	U	0.0013	0.0050	mg/l		8260B	09/23/14	5
Isopropylbenzene	0.0031	0.0016	0.0050	mg/l	J	8260B	09/23/14	5

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-06

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW6_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 15:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.0019	0.0018	0.0050	mg/l	J	8260B	09/23/14	5
2-Butanone (MEK)	U	0.020	0.050	mg/l		8260B	09/23/14	5
Methylene Chloride	U	0.0050	0.025	mg/l		8260B	09/23/14	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.050	mg/l		8260B	09/23/14	5
Methyl tert-butyl ether	U	0.0018	0.0050	mg/l		8260B	09/23/14	5
Naphthalene	0.22	0.0050	0.025	mg/l		8260B	09/23/14	5
n-Propylbenzene	U	0.0017	0.0050	mg/l		8260B	09/23/14	5
Styrene	U	0.0015	0.0050	mg/l		8260B	09/23/14	5
1,1,1,2-Tetrachloroethane	U	0.0019	0.0050	mg/l		8260B	09/23/14	5
1,1,2,2-Tetrachloroethane	U	0.0029	0.0050	mg/l		8260B	09/23/14	5
1,1,2-Trichlorotrifluoroethane	U	0.0015	0.0050	mg/l		8260B	09/23/14	5
Tetrachloroethene	U	0.0019	0.0050	mg/l		8260B	09/23/14	5
Toluene	U	0.0039	0.025	mg/l		8260B	09/23/14	5
1,2,3-Trichlorobenzene	U	0.0012	0.0050	mg/l		8260B	09/23/14	5
1,2,4-Trichlorobenzene	U	0.0011	0.0050	mg/l		8260B	09/23/14	5
1,1,1-Trichloroethane	U	0.0016	0.0050	mg/l		8260B	09/23/14	5
1,1,2-Trichloroethane	U	0.0019	0.0050	mg/l		8260B	09/23/14	5
Trichloroethene	U	0.0020	0.0050	mg/l		8260B	09/23/14	5
Trichlorofluoromethane	U	0.0060	0.025	mg/l		8260B	09/23/14	5
1,2,3-Trichloropropane	U	0.0040	0.013	mg/l		8260B	09/23/14	5
1,2,4-Trimethylbenzene	0.015	0.0019	0.0050	mg/l		8260B	09/23/14	5
1,2,3-Trimethylbenzene	0.0046	0.0016	0.0050	mg/l	J	8260B	09/23/14	5
1,3,5-Trimethylbenzene	0.0038	0.0019	0.0050	mg/l	J	8260B	09/23/14	5
Vinyl chloride	U	0.0013	0.0050	mg/l		8260B	09/23/14	5
Xylenes, Total	0.012	0.0053	0.015	mg/l	J	8260B	09/23/14	5
Surrogate Recovery								
Toluene-d8	97.9			% Rec.		8260B	09/23/14	5
Dibromofluoromethane	104.			% Rec.		8260B	09/23/14	5
4-Bromofluorobenzene	105.			% Rec.		8260B	09/23/14	5
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.020	0.000015	0.00010	mg/l		8270C-S	09/19/14	2
Acenaphthene	0.062	0.000016	0.00010	mg/l	V	8270C-S	09/19/14	2
Acenaphthylene	0.057	0.000014	0.00010	mg/l	V	8270C-S	09/19/14	2
Benzo(a)anthracene	0.0032	0.000024	0.00010	mg/l		8270C-S	09/19/14	2
Benzo(a)pyrene	0.0026	0.000023	0.00010	mg/l		8270C-S	09/19/14	2
Benzo(b)fluoranthene	0.0018	0.000028	0.00010	mg/l		8270C-S	09/19/14	2
Benzo(g,h,i)perylene	0.0012	0.000023	0.00010	mg/l		8270C-S	09/19/14	2
Benzo(k)fluoranthene	0.00069	0.000027	0.00010	mg/l		8270C-S	09/19/14	2
Chrysene	0.0029	0.000022	0.00010	mg/l		8270C-S	09/19/14	2
Dibenz(a,h)anthracene	0.000086	0.0000079	0.00010	mg/l	J	8270C-S	09/19/14	2
Fluoranthene	0.015	0.000031	0.00010	mg/l	V	8270C-S	09/19/14	2
Fluorene	0.051	0.000017	0.00010	mg/l	V	8270C-S	09/19/14	2

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-06

Site ID : 13TH STREET PLAZA

Project # : 5047-RC-C100

Date Received : September 17, 2014
Description : 13th Street Plaza

Sample ID : COB_MW6_091514

Collected By : Bransen Fields
Collection Date : 09/15/14 15:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.00094	0.000030	0.00010	mg/l		8270C-S	09/19/14	2
Naphthalene	0.073	0.000040	0.00050	mg/l	VJ3	8270C-S	09/19/14	2
Phenanthrene	0.094	0.000016	0.00010	mg/l	V	8270C-S	09/19/14	2
Pyrene	0.020	0.000023	0.00010	mg/l	V	8270C-S	09/19/14	2
1-Methylnaphthalene	0.14	0.000016	0.00050	mg/l	V	8270C-S	09/19/14	2
2-Methylnaphthalene	0.0093	0.000018	0.00050	mg/l	VJ3	8270C-S	09/19/14	2
2-Chloronaphthalene	U	0.000013	0.00050	mg/l		8270C-S	09/19/14	2
Surrogate Recovery								
Nitrobenzene-d5	97.8			% Rec.		8270C-S	09/19/14	2
2-Fluorobiphenyl	94.0			% Rec.		8270C-S	09/19/14	2
p-Terphenyl-d14	78.9			% Rec.		8270C-S	09/19/14	2

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MDL = Minimum Detection Limit = LOD = TRRP SDL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-07

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW7_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 13:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	09/21/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	09/21/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	09/21/14	1
Benzene	0.020	0.00033	0.0010	mg/l		8260B	09/21/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	09/21/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	09/21/14	1
n-Butylbenzene	0.00070	0.00036	0.0010	mg/l	J	8260B	09/21/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	09/21/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	09/21/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	09/21/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	09/21/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	09/21/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	09/21/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	09/21/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	09/21/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Ethylbenzene	0.036	0.00038	0.0010	mg/l		8260B	09/21/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Isopropylbenzene	0.016	0.00033	0.0010	mg/l		8260B	09/21/14	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-07

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW7_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 13:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.0023	0.00035	0.0010	mg/l		8260B	09/21/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	09/21/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	09/21/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Naphthalene	0.42	0.010	0.050	mg/l		8260B	09/23/14	10
n-Propylbenzene	0.0023	0.00035	0.0010	mg/l		8260B	09/21/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	09/21/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Toluene	0.0026	0.00078	0.0050	mg/l	J	8260B	09/21/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	09/21/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	09/21/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J4	8260B	09/21/14	1
1,2,4-Trimethylbenzene	0.024	0.00037	0.0010	mg/l		8260B	09/21/14	1
1,2,3-Trimethylbenzene	0.025	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,3,5-Trimethylbenzene	0.0018	0.00039	0.0010	mg/l		8260B	09/21/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Xylenes, Total	0.051	0.0011	0.0030	mg/l		8260B	09/21/14	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	09/21/14	1
Dibromofluoromethane	108.			% Rec.		8260B	09/21/14	1
4-Bromofluorobenzene	103.			% Rec.		8260B	09/21/14	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.011	0.0000076	0.000050	mg/l		8270C-S	09/19/14	1
Acenaphthene	0.19	0.00041	0.0025	mg/l		8270C-S	09/22/14	50
Acenaphthylene	0.063	0.0000068	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(a)anthracene	0.00025	0.000012	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(a)pyrene	0.00012	0.000012	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(b)fluoranthene	0.00012	0.000014	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(g,h,i)perylene	0.000095	0.000011	0.000050	mg/l		8270C-S	09/19/14	1
Benzo(k)fluoranthene	0.000038	0.000014	0.000050	mg/l	J	8270C-S	09/19/14	1
Chrysene	0.00021	0.000011	0.000050	mg/l		8270C-S	09/19/14	1
Dibenz(a,h)anthracene	0.0000060	0.0000040	0.000050	mg/l	J	8270C-S	09/19/14	1
Fluoranthene	0.0037	0.000016	0.000050	mg/l		8270C-S	09/19/14	1
Fluorene	0.026	0.0000085	0.000050	mg/l		8270C-S	09/19/14	1

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Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-07

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW7_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 13:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000067	0.000015	0.000050	mg/l		8270C-S	09/19/14	1
Naphthalene	0.59	0.00099	0.013	mg/l		8270C-S	09/22/14	50
Phenanthrene	0.047	0.0000082	0.000050	mg/l		8270C-S	09/19/14	1
Pyrene	0.0045	0.000012	0.000050	mg/l		8270C-S	09/19/14	1
1-Methylnaphthalene	0.68	0.00041	0.013	mg/l		8270C-S	09/22/14	50
2-Methylnaphthalene	0.0082	0.0000090	0.00025	mg/l		8270C-S	09/19/14	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	09/19/14	1
Surrogate Recovery								
Nitrobenzene-d5	115.			% Rec.		8270C-S	09/19/14	1
2-Fluorobiphenyl	107.			% Rec.		8270C-S	09/19/14	1
p-Terphenyl-d14	96.5			% Rec.		8270C-S	09/19/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-08

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW8R_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 11:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	09/21/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	09/21/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	09/21/14	1
Benzene	0.0061	0.00033	0.0010	mg/l		8260B	09/21/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	09/21/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	09/21/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	09/21/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	09/21/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	09/21/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	09/21/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	09/21/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	09/21/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	09/21/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	09/21/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Ethylbenzene	0.00039	0.00038	0.0010	mg/l	J	8260B	09/21/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Isopropylbenzene	0.0013	0.00033	0.0010	mg/l		8260B	09/21/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-08

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW8R_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 11:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	09/21/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	09/21/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Naphthalene	0.25	0.010	0.050	mg/l		8260B	09/23/14	10
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	09/21/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Toluene	0.0012	0.00078	0.0050	mg/l	J	8260B	09/21/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	09/21/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	09/21/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J4	8260B	09/21/14	1
1,2,4-Trimethylbenzene	0.011	0.00037	0.0010	mg/l		8260B	09/21/14	1
1,2,3-Trimethylbenzene	0.0056	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,3,5-Trimethylbenzene	0.0038	0.00039	0.0010	mg/l		8260B	09/21/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Xylenes, Total	0.025	0.0011	0.0030	mg/l		8260B	09/21/14	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	09/21/14	1
Dibromofluoromethane	107.			% Rec.		8260B	09/21/14	1
4-Bromofluorobenzene	100.			% Rec.		8260B	09/21/14	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0000076	0.000050	mg/l		8270C-S	09/21/14	1
Acenaphthene	U	0.0000082	0.000050	mg/l		8270C-S	09/21/14	1
Acenaphthylene	U	0.0000068	0.000050	mg/l		8270C-S	09/21/14	1
Benzo(a)anthracene	0.000025	0.000012	0.000050	mg/l	J	8270C-S	09/23/14	1
Benzo(a)pyrene	0.000023	0.000012	0.000050	mg/l	J	8270C-S	09/21/14	1
Benzo(b)fluoranthene	0.000018	0.000014	0.000050	mg/l	J	8270C-S	09/21/14	1
Benzo(g,h,i)perylene	U	0.000011	0.000050	mg/l		8270C-S	09/21/14	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	09/21/14	1
Chrysene	0.000018	0.000011	0.000050	mg/l	J	8270C-S	09/23/14	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	09/21/14	1
Fluoranthene	0.000019	0.000016	0.000050	mg/l	J	8270C-S	09/21/14	1
Fluorene	U	0.0000085	0.000050	mg/l		8270C-S	09/21/14	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-08

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW8R_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 11:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000015	0.000050	mg/l		8270C-S	09/21/14	1
Naphthalene	0.000066	0.000020	0.00025	mg/l	J	8270C-S	09/21/14	1
Phenanthrene	0.000010	0.0000082	0.000050	mg/l	J	8270C-S	09/21/14	1
Pyrene	0.00031	0.000012	0.000050	mg/l		8270C-S	09/23/14	1
1-Methylnaphthalene	0.000016	0.0000082	0.00025	mg/l	J	8270C-S	09/21/14	1
2-Methylnaphthalene	0.000025	0.0000090	0.00025	mg/l	J	8270C-S	09/21/14	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	09/21/14	1
Surrogate Recovery								
Nitrobenzene-d5	106.			% Rec.		8270C-S	09/21/14	1
2-Fluorobiphenyl	108.			% Rec.		8270C-S	09/21/14	1
p-Terphenyl-d14	99.5			% Rec.		8270C-S	09/23/14	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-09

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW10_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 15:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	09/21/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	09/21/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	09/21/14	1
Benzene	0.0032	0.00033	0.0010	mg/l		8260B	09/21/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	09/21/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	09/21/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	09/21/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	09/21/14	1
Chloroform	0.026	0.00032	0.0050	mg/l		8260B	09/21/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	09/21/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	09/21/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	09/21/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	09/21/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	09/21/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Ethylbenzene	0.027	0.00038	0.0010	mg/l		8260B	09/21/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Isopropylbenzene	0.0053	0.00033	0.0010	mg/l		8260B	09/21/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-09

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW10_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 15:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.0017	0.00035	0.0010	mg/l		8260B	09/21/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	09/21/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	09/21/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Naphthalene	0.34	0.010	0.050	mg/l		8260B	09/23/14	10
n-Propylbenzene	0.0014	0.00035	0.0010	mg/l		8260B	09/21/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	09/21/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Toluene	0.0021	0.00078	0.0050	mg/l	J	8260B	09/21/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	09/21/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	09/21/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J4	8260B	09/21/14	1
1,2,4-Trimethylbenzene	0.024	0.00037	0.0010	mg/l		8260B	09/21/14	1
1,2,3-Trimethylbenzene	0.0072	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,3,5-Trimethylbenzene	0.0067	0.00039	0.0010	mg/l		8260B	09/21/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Xylenes, Total	0.028	0.0011	0.0030	mg/l		8260B	09/21/14	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	09/21/14	1
Dibromofluoromethane	110.			% Rec.		8260B	09/21/14	1
4-Bromofluorobenzene	102.			% Rec.		8260B	09/21/14	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0034	0.000015	0.00010	mg/l		8270C-S	09/19/14	2
Acenaphthene	0.038	0.000016	0.00010	mg/l		8270C-S	09/19/14	2
Acenaphthylene	0.012	0.000014	0.00010	mg/l		8270C-S	09/19/14	2
Benzo(a)anthracene	0.000088	0.000024	0.00010	mg/l	J	8270C-S	09/19/14	2
Benzo(a)pyrene	0.000070	0.000023	0.00010	mg/l	J	8270C-S	09/19/14	2
Benzo(b)fluoranthene	0.000070	0.000028	0.00010	mg/l	J	8270C-S	09/19/14	2
Benzo(g,h,i)perylene	0.000081	0.000023	0.00010	mg/l	J	8270C-S	09/19/14	2
Benzo(k)fluoranthene	U	0.000027	0.00010	mg/l		8270C-S	09/19/14	2
Chrysene	0.000058	0.000022	0.00010	mg/l	J	8270C-S	09/19/14	2
Dibenz(a,h)anthracene	0.0000090	0.0000079	0.00010	mg/l	J	8270C-S	09/19/14	2
Fluoranthene	0.0017	0.000031	0.00010	mg/l		8270C-S	09/19/14	2
Fluorene	0.0079	0.000017	0.00010	mg/l		8270C-S	09/19/14	2

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-09

Site ID : 13TH STREET PLAZA

Project # : 5047-RC-C100

Date Received : September 17, 2014
Description : 13th Street Plaza

Sample ID : COB_MW10_091514

Collected By : Bransen Fields
Collection Date : 09/15/14 15:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000056	0.000030	0.00010	mg/l	J	8270C-S	09/19/14	2
Naphthalene	0.13	0.000040	0.00050	mg/l		8270C-S	09/19/14	2
Phenanthrene	0.0084	0.000016	0.00010	mg/l		8270C-S	09/19/14	2
Pyrene	0.0024	0.000023	0.00010	mg/l		8270C-S	09/19/14	2
1-Methylnaphthalene	0.078	0.000016	0.00050	mg/l		8270C-S	09/19/14	2
2-Methylnaphthalene	0.026	0.000018	0.00050	mg/l		8270C-S	09/19/14	2
2-Chloronaphthalene	U	0.000013	0.00050	mg/l		8270C-S	09/19/14	2
Surrogate Recovery								
Nitrobenzene-d5	83.1			% Rec.		8270C-S	09/19/14	2
2-Fluorobiphenyl	67.9			% Rec.		8270C-S	09/19/14	2
p-Terphenyl-d14	55.8			% Rec.		8270C-S	09/19/14	2

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-10

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW11_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 11:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	09/21/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	09/21/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	09/21/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	09/21/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	09/21/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	09/21/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	09/21/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	09/21/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	09/21/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	09/21/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	09/21/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	09/21/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	09/21/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Ethylbenzene	0.00046	0.00038	0.0010	mg/l	J	8260B	09/21/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Isopropylbenzene	0.00052	0.00033	0.0010	mg/l	J	8260B	09/21/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-10

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW11_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 11:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	09/21/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	09/21/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Naphthalene	0.028	0.0010	0.0050	mg/l		8260B	09/21/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	09/21/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	09/21/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	09/21/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J4	8260B	09/21/14	1
1,2,4-Trimethylbenzene	0.0012	0.00037	0.0010	mg/l		8260B	09/21/14	1
1,2,3-Trimethylbenzene	0.0011	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,3,5-Trimethylbenzene	0.00049	0.00039	0.0010	mg/l	J	8260B	09/21/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Xylenes, Total	0.0032	0.0011	0.0030	mg/l		8260B	09/21/14	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	09/21/14	1
Dibromofluoromethane	108.			% Rec.		8260B	09/21/14	1
4-Bromofluorobenzene	103.			% Rec.		8260B	09/21/14	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.015	0.0000076	0.000050	mg/l		8270C-S	09/21/14	1
Acenaphthene	0.011	0.0000082	0.000050	mg/l		8270C-S	09/21/14	1
Acenaphthylene	0.027	0.0000068	0.000050	mg/l		8270C-S	09/21/14	1
Benzo(a)anthracene	0.00087	0.000012	0.000050	mg/l		8270C-S	09/21/14	1
Benzo(a)pyrene	0.00045	0.000012	0.000050	mg/l		8270C-S	09/21/14	1
Benzo(b)fluoranthene	0.00031	0.000014	0.000050	mg/l		8270C-S	09/21/14	1
Benzo(g,h,i)perylene	0.00016	0.000011	0.000050	mg/l		8270C-S	09/21/14	1
Benzo(k)fluoranthene	0.00011	0.000014	0.000050	mg/l		8270C-S	09/21/14	1
Chrysene	0.00083	0.000011	0.000050	mg/l		8270C-S	09/21/14	1
Dibenz(a,h)anthracene	0.000018	0.0000040	0.000050	mg/l	J	8270C-S	09/21/14	1
Fluoranthene	0.0075	0.000016	0.000050	mg/l		8270C-S	09/21/14	1
Fluorene	0.010	0.0000085	0.000050	mg/l		8270C-S	09/21/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-10

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW11_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 11:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.00013	0.000015	0.000050	mg/l		8270C-S	09/21/14	1
Naphthalene	0.0061	0.000020	0.00025	mg/l		8270C-S	09/21/14	1
Phenanthrene	0.036	0.0000082	0.000050	mg/l		8270C-S	09/21/14	1
Pyrene	0.0098	0.000012	0.000050	mg/l		8270C-S	09/21/14	1
1-Methylnaphthalene	0.030	0.0000082	0.00025	mg/l		8270C-S	09/21/14	1
2-Methylnaphthalene	0.0020	0.0000090	0.00025	mg/l		8270C-S	09/21/14	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	09/21/14	1
Surrogate Recovery								
Nitrobenzene-d5	92.7			% Rec.		8270C-S	09/21/14	1
2-Fluorobiphenyl	101.			% Rec.		8270C-S	09/21/14	1
p-Terphenyl-d14	91.7			% Rec.		8270C-S	09/21/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-11

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW12_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 11:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.10	0.50	mg/l		8260B	09/21/14	10
Acrolein	U	0.089	0.50	mg/l		8260B	09/21/14	10
Acrylonitrile	U	0.019	0.10	mg/l		8260B	09/21/14	10
Benzene	0.087	0.0033	0.010	mg/l		8260B	09/21/14	10
Bromobenzene	U	0.0035	0.010	mg/l		8260B	09/21/14	10
Bromodichloromethane	U	0.0038	0.010	mg/l		8260B	09/21/14	10
Bromoform	U	0.0047	0.010	mg/l		8260B	09/21/14	10
Bromomethane	U	0.0087	0.050	mg/l		8260B	09/21/14	10
n-Butylbenzene	U	0.0036	0.010	mg/l		8260B	09/21/14	10
sec-Butylbenzene	U	0.0036	0.010	mg/l		8260B	09/21/14	10
tert-Butylbenzene	U	0.0040	0.010	mg/l		8260B	09/21/14	10
Carbon tetrachloride	U	0.0038	0.010	mg/l		8260B	09/21/14	10
Chlorobenzene	U	0.0035	0.010	mg/l		8260B	09/21/14	10
Chlorodibromomethane	U	0.0033	0.010	mg/l		8260B	09/21/14	10
Chloroethane	U	0.0045	0.050	mg/l		8260B	09/21/14	10
2-Chloroethyl vinyl ether	U	0.030	0.50	mg/l		8260B	09/21/14	10
Chloroform	U	0.0032	0.050	mg/l		8260B	09/21/14	10
Chloromethane	U	0.0028	0.025	mg/l		8260B	09/21/14	10
2-Chlorotoluene	U	0.0038	0.010	mg/l		8260B	09/21/14	10
4-Chlorotoluene	U	0.0035	0.010	mg/l		8260B	09/21/14	10
1,2-Dibromo-3-Chloropropane	U	0.013	0.050	mg/l		8260B	09/21/14	10
1,2-Dibromoethane	U	0.0038	0.010	mg/l		8260B	09/21/14	10
Dibromomethane	U	0.0035	0.010	mg/l		8260B	09/21/14	10
1,2-Dichlorobenzene	U	0.0035	0.010	mg/l		8260B	09/21/14	10
1,3-Dichlorobenzene	U	0.0022	0.010	mg/l		8260B	09/21/14	10
1,4-Dichlorobenzene	U	0.0027	0.010	mg/l		8260B	09/21/14	10
Dichlorodifluoromethane	U	0.0055	0.050	mg/l		8260B	09/21/14	10
1,1-Dichloroethane	U	0.0026	0.010	mg/l		8260B	09/21/14	10
1,2-Dichloroethane	U	0.0036	0.010	mg/l		8260B	09/21/14	10
1,1-Dichloroethene	U	0.0040	0.010	mg/l		8260B	09/21/14	10
cis-1,2-Dichloroethene	U	0.0026	0.010	mg/l		8260B	09/21/14	10
trans-1,2-Dichloroethene	U	0.0040	0.010	mg/l		8260B	09/21/14	10
1,2-Dichloropropane	U	0.0031	0.010	mg/l		8260B	09/21/14	10
1,1-Dichloropropene	U	0.0035	0.010	mg/l		8260B	09/21/14	10
1,3-Dichloropropane	U	0.0037	0.010	mg/l		8260B	09/21/14	10
cis-1,3-Dichloropropene	U	0.0042	0.010	mg/l		8260B	09/21/14	10
trans-1,3-Dichloropropene	U	0.0042	0.010	mg/l		8260B	09/21/14	10
2,2-Dichloropropane	U	0.0032	0.010	mg/l		8260B	09/21/14	10
Di-isopropyl ether	U	0.0032	0.010	mg/l		8260B	09/21/14	10
Ethylbenzene	0.30	0.0038	0.010	mg/l		8260B	09/21/14	10
Hexachloro-1,3-butadiene	U	0.0026	0.010	mg/l		8260B	09/21/14	10
Isopropylbenzene	0.033	0.0033	0.010	mg/l		8260B	09/21/14	10

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-11

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW12_091614

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/16/14 11:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.012	0.0035	0.010	mg/l		8260B	09/21/14	10
2-Butanone (MEK)	U	0.039	0.10	mg/l		8260B	09/21/14	10
Methylene Chloride	U	0.010	0.050	mg/l		8260B	09/21/14	10
4-Methyl-2-pentanone (MIBK)	U	0.021	0.10	mg/l		8260B	09/21/14	10
Methyl tert-butyl ether	U	0.0037	0.010	mg/l		8260B	09/21/14	10
Naphthalene	4.4	0.10	0.50	mg/l		8260B	09/23/14	100
n-Propylbenzene	0.0089	0.0035	0.010	mg/l	J	8260B	09/21/14	10
Styrene	0.011	0.0031	0.010	mg/l		8260B	09/21/14	10
1,1,1,2-Tetrachloroethane	U	0.0038	0.010	mg/l		8260B	09/21/14	10
1,1,2,2-Tetrachloroethane	U	0.0058	0.010	mg/l		8260B	09/21/14	10
1,1,2-Trichlorotrifluoroethane	U	0.0030	0.010	mg/l		8260B	09/21/14	10
Tetrachloroethene	U	0.0037	0.010	mg/l		8260B	09/21/14	10
Toluene	0.11	0.0078	0.050	mg/l		8260B	09/21/14	10
1,2,3-Trichlorobenzene	U	0.0023	0.010	mg/l		8260B	09/21/14	10
1,2,4-Trichlorobenzene	U	0.0021	0.010	mg/l		8260B	09/21/14	10
1,1,1-Trichloroethane	U	0.0032	0.010	mg/l		8260B	09/21/14	10
1,1,2-Trichloroethane	U	0.0038	0.010	mg/l		8260B	09/21/14	10
Trichloroethene	U	0.0040	0.010	mg/l		8260B	09/21/14	10
Trichlorofluoromethane	U	0.012	0.050	mg/l		8260B	09/21/14	10
1,2,3-Trichloropropane	U	0.0081	0.025	mg/l	J4	8260B	09/21/14	10
1,2,4-Trimethylbenzene	0.15	0.0037	0.010	mg/l		8260B	09/21/14	10
1,2,3-Trimethylbenzene	0.051	0.0032	0.010	mg/l		8260B	09/21/14	10
1,3,5-Trimethylbenzene	0.050	0.0039	0.010	mg/l		8260B	09/21/14	10
Vinyl chloride	U	0.0026	0.010	mg/l		8260B	09/21/14	10
Xylenes, Total	0.52	0.011	0.030	mg/l		8260B	09/21/14	10
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	09/21/14	10
Dibromofluoromethane	103.			% Rec.		8260B	09/21/14	10
4-Bromofluorobenzene	105.			% Rec.		8260B	09/21/14	10
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0095	0.0000076	0.000050	mg/l		8270C-S	09/22/14	1
Acenaphthene	0.44	0.00082	0.0050	mg/l		8270C-S	09/29/14	100
Acenaphthylene	0.055	0.0000068	0.000050	mg/l		8270C-S	09/22/14	1
Benzo(a)anthracene	0.00049	0.000012	0.000050	mg/l		8270C-S	09/22/14	1
Benzo(a)pyrene	0.00022	0.000012	0.000050	mg/l		8270C-S	09/22/14	1
Benzo(b)fluoranthene	0.00024	0.000014	0.000050	mg/l		8270C-S	09/22/14	1
Benzo(g,h,i)perylene	0.000075	0.000011	0.000050	mg/l		8270C-S	09/22/14	1
Benzo(k)fluoranthene	0.00018	0.000014	0.000050	mg/l		8270C-S	09/22/14	1
Chrysene	0.00049	0.000011	0.000050	mg/l		8270C-S	09/22/14	1
Dibenz(a,h)anthracene	0.0000085	0.0000040	0.000050	mg/l	J	8270C-S	09/22/14	1
Fluoranthene	0.0026	0.000016	0.000050	mg/l		8270C-S	09/22/14	1
Fluorene	0.065	0.0000085	0.000050	mg/l		8270C-S	09/22/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-11

Site ID : 13TH STREET PLAZA

Project # : 5047-RC-C100

Date Received : September 17, 2014
Description : 13th Street Plaza

Sample ID : COB_MW12_091614

Collected By : Bransen Fields
Collection Date : 09/16/14 11:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000062	0.000015	0.000050	mg/l		8270C-S	09/22/14	1
Naphthalene	5.4	0.0020	0.025	mg/l		8270C-S	09/29/14	100
Phenanthrene	0.055	0.0000082	0.000050	mg/l		8270C-S	09/22/14	1
Pyrene	0.0036	0.000012	0.000050	mg/l		8270C-S	09/22/14	1
1-Methylnaphthalene	1.6	0.00082	0.025	mg/l		8270C-S	09/29/14	100
2-Methylnaphthalene	1.8	0.00090	0.025	mg/l		8270C-S	09/29/14	100
2-Chloronaphthalene	0.000093	0.0000065	0.00025	mg/l	J	8270C-S	09/22/14	1
Surrogate Recovery								
Nitrobenzene-d5	100.			% Rec.	J7	8270C-S	09/29/14	100
2-Fluorobiphenyl	80.4			% Rec.		8270C-S	09/22/14	1
p-Terphenyl-d14	89.6			% Rec.		8270C-S	09/22/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-12

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW13_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 14:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	09/21/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	09/21/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	09/21/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	09/21/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	09/21/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	09/21/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	09/21/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	09/21/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	09/21/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	09/21/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	09/21/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	09/21/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	09/21/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Ethylbenzene	0.0015	0.00038	0.0010	mg/l		8260B	09/21/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Isopropylbenzene	0.00078	0.00033	0.0010	mg/l	J	8260B	09/21/14	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-12

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW13_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 14:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	09/21/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	09/21/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Naphthalene	0.033	0.0010	0.0050	mg/l		8260B	09/21/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	09/21/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	09/21/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	09/21/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J4	8260B	09/21/14	1
1,2,4-Trimethylbenzene	0.0028	0.00037	0.0010	mg/l		8260B	09/21/14	1
1,2,3-Trimethylbenzene	0.0012	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,3,5-Trimethylbenzene	0.00054	0.00039	0.0010	mg/l	J	8260B	09/21/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Xylenes, Total	0.0022	0.0011	0.0030	mg/l	J	8260B	09/21/14	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	09/21/14	1
Dibromofluoromethane	108.			% Rec.		8260B	09/21/14	1
4-Bromofluorobenzene	104.			% Rec.		8260B	09/21/14	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0037	0.000015	0.00010	mg/l		8270C-S	09/19/14	2
Acenaphthene	0.0046	0.000016	0.00010	mg/l		8270C-S	09/19/14	2
Acenaphthylene	0.0078	0.000014	0.00010	mg/l		8270C-S	09/19/14	2
Benzo(a)anthracene	0.00029	0.000024	0.00010	mg/l		8270C-S	09/19/14	2
Benzo(a)pyrene	0.00013	0.000023	0.00010	mg/l		8270C-S	09/19/14	2
Benzo(b)fluoranthene	0.00012	0.000028	0.00010	mg/l		8270C-S	09/19/14	2
Benzo(g,h,i)perylene	0.000054	0.000023	0.00010	mg/l	J	8270C-S	09/19/14	2
Benzo(k)fluoranthene	0.000046	0.000027	0.00010	mg/l	J	8270C-S	09/19/14	2
Chrysene	0.00032	0.000022	0.00010	mg/l		8270C-S	09/19/14	2
Dibenz(a,h)anthracene	0.000010	0.0000079	0.00010	mg/l	J	8270C-S	09/19/14	2
Fluoranthene	0.0017	0.000031	0.00010	mg/l		8270C-S	09/19/14	2
Fluorene	0.0049	0.000017	0.00010	mg/l		8270C-S	09/19/14	2

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-12

Site ID : 13TH STREET PLAZA

Project # : 5047-RC-C100

Date Received : September 17, 2014
Description : 13th Street Plaza

Sample ID : COB_MW13_091514

Collected By : Bransen Fields
Collection Date : 09/15/14 14:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000038	0.000030	0.00010	mg/l	J	8270C-S	09/19/14	2
Naphthalene	0.019	0.000040	0.00050	mg/l		8270C-S	09/19/14	2
Phenanthrene	0.015	0.000016	0.00010	mg/l		8270C-S	09/19/14	2
Pyrene	0.0023	0.000023	0.00010	mg/l		8270C-S	09/19/14	2
1-Methylnaphthalene	0.026	0.000016	0.00050	mg/l		8270C-S	09/19/14	2
2-Methylnaphthalene	0.0028	0.000018	0.00050	mg/l		8270C-S	09/19/14	2
2-Chloronaphthalene	U	0.000013	0.00050	mg/l		8270C-S	09/19/14	2
Surrogate Recovery								
Nitrobenzene-d5	82.4			% Rec.		8270C-S	09/19/14	2
2-Fluorobiphenyl	79.8			% Rec.		8270C-S	09/19/14	2
p-Terphenyl-d14	46.5			% Rec.	J2	8270C-S	09/19/14	2

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-13

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_FIELDDUP_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 15:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	09/21/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	09/21/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	09/21/14	1
Benzene	0.0054	0.00033	0.0010	mg/l		8260B	09/21/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Bromodichloromethane	0.00070	0.00038	0.0010	mg/l	J	8260B	09/21/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	09/21/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	09/21/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	09/21/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	09/21/14	1
Chloroform	0.022	0.00032	0.0050	mg/l		8260B	09/21/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	09/21/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	09/21/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	09/21/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	09/21/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	09/21/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Ethylbenzene	0.045	0.00038	0.0010	mg/l		8260B	09/21/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Isopropylbenzene	0.0073	0.00033	0.0010	mg/l		8260B	09/21/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-13

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_FIELDDUP_091514

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 15:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.0020	0.00035	0.0010	mg/l		8260B	09/21/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	09/21/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	09/21/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Naphthalene	0.63	0.010	0.050	mg/l		8260B	09/23/14	10
n-Propylbenzene	0.0019	0.00035	0.0010	mg/l		8260B	09/21/14	1
Styrene	0.00032	0.00031	0.0010	mg/l	J	8260B	09/21/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	09/21/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Toluene	0.0034	0.00078	0.0050	mg/l	J	8260B	09/21/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	09/21/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	09/21/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J4	8260B	09/21/14	1
1,2,4-Trimethylbenzene	0.032	0.00037	0.0010	mg/l		8260B	09/21/14	1
1,2,3-Trimethylbenzene	0.010	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,3,5-Trimethylbenzene	0.0090	0.00039	0.0010	mg/l		8260B	09/21/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Xylenes, Total	0.045	0.0011	0.0030	mg/l		8260B	09/21/14	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	09/21/14	1
Dibromofluoromethane	110.			% Rec.		8260B	09/21/14	1
4-Bromofluorobenzene	102.			% Rec.		8260B	09/21/14	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0033	0.000015	0.00010	mg/l		8270C-S	09/19/14	2
Acenaphthene	0.036	0.000016	0.00010	mg/l		8270C-S	09/19/14	2
Acenaphthylene	0.011	0.000014	0.00010	mg/l		8270C-S	09/19/14	2
Benzo(a)anthracene	0.000089	0.000024	0.00010	mg/l	J	8270C-S	09/19/14	2
Benzo(a)pyrene	0.000078	0.000023	0.00010	mg/l	J	8270C-S	09/19/14	2
Benzo(b)fluoranthene	0.000074	0.000028	0.00010	mg/l	J	8270C-S	09/19/14	2
Benzo(g,h,i)perylene	0.000091	0.000023	0.00010	mg/l	J	8270C-S	09/19/14	2
Benzo(k)fluoranthene	0.000028	0.000027	0.00010	mg/l	J	8270C-S	09/19/14	2
Chrysene	0.000058	0.000022	0.00010	mg/l	J	8270C-S	09/19/14	2
Dibenz(a,h)anthracene	U	0.0000079	0.00010	mg/l		8270C-S	09/19/14	2
Fluoranthene	0.0017	0.000031	0.00010	mg/l		8270C-S	09/19/14	2
Fluorene	0.0077	0.000017	0.00010	mg/l		8270C-S	09/19/14	2

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REPORT OF ANALYSIS

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USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-13

Site ID : 13TH STREET PLAZA

Project # : 5047-RC-C100

Date Received : September 17, 2014
Description : 13th Street Plaza

Sample ID : COB_FIELDDUP_091514

Collected By : Bransen Fields
Collection Date : 09/15/14 15:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000060	0.000030	0.00010	mg/l	J	8270C-S	09/19/14	2
Naphthalene	0.17	0.000040	0.00050	mg/l		8270C-S	09/19/14	2
Phenanthrene	0.0093	0.000016	0.00010	mg/l		8270C-S	09/19/14	2
Pyrene	0.0024	0.000023	0.00010	mg/l		8270C-S	09/19/14	2
1-Methylnaphthalene	0.077	0.000016	0.00050	mg/l		8270C-S	09/19/14	2
2-Methylnaphthalene	0.028	0.000018	0.00050	mg/l		8270C-S	09/19/14	2
2-Chloronaphthalene	U	0.000013	0.00050	mg/l		8270C-S	09/19/14	2
Surrogate Recovery								
Nitrobenzene-d5	95.6			% Rec.		8270C-S	09/19/14	2
2-Fluorobiphenyl	77.7			% Rec.		8270C-S	09/19/14	2
p-Terphenyl-d14	65.7			% Rec.		8270C-S	09/19/14	2

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-14

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : TRIP BLANK

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	09/21/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	09/21/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	09/21/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	09/21/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	09/21/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	09/21/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	09/21/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	09/21/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	09/21/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	09/21/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	09/21/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	09/21/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	09/21/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	09/21/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	09/21/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	09/21/14	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 09/29/14 11:45 Printed: 09/29/14 11:46

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

September 29, 2014

ESC Sample # : L722204-14

Date Received : September 17, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : TRIP BLANK

Project # : 5047-RC-C100

Collected By : Bransen Fields
Collection Date : 09/15/14 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	09/21/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	09/21/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Naphthalene	U	0.0010	0.0050	mg/l		8260B	09/21/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	09/21/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	09/21/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	09/21/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	09/21/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	09/21/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	09/21/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	09/21/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	09/21/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J4	8260B	09/21/14	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	09/21/14	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	09/21/14	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	09/21/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	09/21/14	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	09/21/14	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	09/21/14	1
Dibromofluoromethane	109.			% Rec.		8260B	09/21/14	1
4-Bromofluorobenzene	99.2			% Rec.		8260B	09/21/14	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
The reported analytical results relate only to the sample submitted.
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.
Reported: 09/29/14 11:45 Printed: 09/29/14 11:46

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L722204-01	WG743763	SAMP	Naphthalene	R2990939	J
L722204-02	WG743542	SAMP	Benzene	R2991911	J
	WG743542	SAMP	Isopropylbenzene	R2991911	J
	WG743542	SAMP	1,2,3-Trimethylbenzene	R2991911	J
	WG743763	SAMP	Anthracene	R2990939	J
	WG743763	SAMP	Benzo(k)fluoranthene	R2990939	J
	WG743763	SAMP	Dibenz(a,h)anthracene	R2990939	J
	WG743763	SAMP	Phenanthrene	R2990939	J
	WG743763	SAMP	1-Methylnaphthalene	R2990939	J
	WG743763	SAMP	2-Methylnaphthalene	R2990939	J
L722204-03	WG743543	SAMP	p-Isopropyltoluene	R2991681	J
	WG743543	SAMP	n-Propylbenzene	R2991681	J
	WG743543	SAMP	Styrene	R2991681	J
	WG743543	SAMP	1,2,3-Trichloropropane	R2991681	J4
	WG744065	SAMP	Benzo(a)pyrene	R2992534	J
	WG744065	SAMP	Benzo(b)fluoranthene	R2992534	J
	WG744065	SAMP	Benzo(g,h,i)perylene	R2992534	J
	WG744065	SAMP	Chrysene	R2992534	J
L722204-04	WG743543	SAMP	Naphthalene	R2991681	J
	WG743543	SAMP	1,2,3-Trichloropropane	R2991681	J4
	WG744065	SAMP	Anthracene	R2991748	J
	WG744065	SAMP	Benzo(a)pyrene	R2991748	J
	WG744065	SAMP	Benzo(b)fluoranthene	R2991748	J
	WG744065	SAMP	Fluoranthene	R2991748	J
	WG744065	SAMP	Fluorene	R2991748	J
	WG744065	SAMP	Indeno(1,2,3-cd)pyrene	R2991748	J
	WG744065	SAMP	Naphthalene	R2991748	J
	WG744065	SAMP	Phenanthrene	R2991748	J
	WG744065	SAMP	Pyrene	R2992534	J
	WG744065	SAMP	1-Methylnaphthalene	R2991748	J
	WG744065	SAMP	2-Methylnaphthalene	R2991748	J
L722204-05	WG743543	SAMP	Naphthalene	R2991681	J
	WG743543	SAMP	1,2,3-Trichloropropane	R2991681	J4
	WG743543	SAMP	1,2,3-Trimethylbenzene	R2991681	J
L722204-06	WG744517	SAMP	Isopropylbenzene	R2992230	J
	WG744517	SAMP	p-Isopropyltoluene	R2992230	J
	WG744517	SAMP	1,2,3-Trimethylbenzene	R2992230	J
	WG744517	SAMP	1,3,5-Trimethylbenzene	R2992230	J
	WG744517	SAMP	Xylenes, Total	R2992230	J
	WG743763	SAMP	Acenaphthene	R2990939	V
	WG743763	SAMP	Acenaphthylene	R2990939	V
	WG743763	SAMP	Dibenz(a,h)anthracene	R2990939	J
	WG743763	SAMP	Fluoranthene	R2990939	V
	WG743763	SAMP	Fluorene	R2990939	V
	WG743763	SAMP	Naphthalene	R2990939	VJ3
	WG743763	SAMP	Phenanthrene	R2990939	V
	WG743763	SAMP	Pyrene	R2990939	V
	WG743763	SAMP	1-Methylnaphthalene	R2990939	V
	WG743763	SAMP	2-Methylnaphthalene	R2990939	VJ3
L722204-07	WG743543	SAMP	n-Butylbenzene	R2991681	J
	WG743543	SAMP	Toluene	R2991681	J
	WG743543	SAMP	1,2,3-Trichloropropane	R2991681	J4
	WG743763	SAMP	Benzo(k)fluoranthene	R2990939	J
	WG743763	SAMP	Dibenz(a,h)anthracene	R2990939	J
L722204-08	WG743543	SAMP	Ethylbenzene	R2991681	J
	WG743543	SAMP	Toluene	R2991681	J
	WG743543	SAMP	1,2,3-Trichloropropane	R2991681	J4
	WG744065	SAMP	Benzo(a)anthracene	R2992534	J
	WG744065	SAMP	Benzo(a)pyrene	R2991748	J
	WG744065	SAMP	Benzo(b)fluoranthene	R2991748	J
	WG744065	SAMP	Chrysene	R2992534	J
	WG744065	SAMP	Fluoranthene	R2991748	J
	WG744065	SAMP	Naphthalene	R2991748	J
	WG744065	SAMP	Phenanthrene	R2991748	J
	WG744065	SAMP	1-Methylnaphthalene	R2991748	J
	WG744065	SAMP	2-Methylnaphthalene	R2991748	J
L722204-09	WG743543	SAMP	Toluene	R2991681	J
	WG743543	SAMP	1,2,3-Trichloropropane	R2991681	J4
	WG743763	SAMP	Benzo(a)anthracene	R2990939	J

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
	WG743763	SAMP	Benzo(a)pyrene	R2990939	J
	WG743763	SAMP	Benzo(b)fluoranthene	R2990939	J
	WG743763	SAMP	Benzo(g,h,i)perylene	R2990939	J
	WG743763	SAMP	Chrysene	R2990939	J
	WG743763	SAMP	Dibenz(a,h)anthracene	R2990939	J
	WG743763	SAMP	Indeno(1,2,3-cd)pyrene	R2990939	J
L722204-10	WG743543	SAMP	Ethylbenzene	R2991681	J
	WG743543	SAMP	Isopropylbenzene	R2991681	J
	WG743543	SAMP	1,2,3-Trichloropropane	R2991681	J4
	WG743543	SAMP	1,3,5-Trimethylbenzene	R2991681	J
	WG744065	SAMP	Dibenz(a,h)anthracene	R2991748	J
L722204-11	WG743543	SAMP	n-Propylbenzene	R2991681	J
	WG743543	SAMP	1,2,3-Trichloropropane	R2991681	J4
	WG744246	SAMP	Dibenz(a,h)anthracene	R2991978	J
	WG744246	SAMP	2-Chloronaphthalene	R2991978	J
	WG744246	SAMP	Nitrobenzene-d5	R2993480	J7
L722204-12	WG743543	SAMP	Isopropylbenzene	R2991681	J
	WG743543	SAMP	1,2,3-Trichloropropane	R2991681	J4
	WG743543	SAMP	1,3,5-Trimethylbenzene	R2991681	J
	WG743543	SAMP	Xylenes, Total	R2991681	J
	WG743763	SAMP	Benzo(g,h,i)perylene	R2990939	J
	WG743763	SAMP	Benzo(k)fluoranthene	R2990939	J
	WG743763	SAMP	Dibenz(a,h)anthracene	R2990939	J
	WG743763	SAMP	Indeno(1,2,3-cd)pyrene	R2990939	J
	WG743763	SAMP	p-Terphenyl-d14	R2990939	J2
L722204-13	WG743543	SAMP	Bromodichloromethane	R2991681	J
	WG743543	SAMP	Styrene	R2991681	J
	WG743543	SAMP	Toluene	R2991681	J
	WG743543	SAMP	1,2,3-Trichloropropane	R2991681	J4
	WG743763	SAMP	Benzo(a)anthracene	R2990939	J
	WG743763	SAMP	Benzo(a)pyrene	R2990939	J
	WG743763	SAMP	Benzo(b)fluoranthene	R2990939	J
	WG743763	SAMP	Benzo(g,h,i)perylene	R2990939	J
	WG743763	SAMP	Benzo(k)fluoranthene	R2990939	J
	WG743763	SAMP	Chrysene	R2990939	J
	WG743763	SAMP	Indeno(1,2,3-cd)pyrene	R2990939	J
L722204-14	WG743543	SAMP	1,2,3-Trichloropropane	R2991681	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
09/29/14 at 11:46:52

TSR Signing Reports: 296
R5 - Desired TAT

Sample: L722204-01 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45

Sample: L722204-02 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45

Sample: L722204-03 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45

Sample: L722204-04 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45

Sample: L722204-05 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45

Sample: L722204-06 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45
MS-MSD this sample
Sample: L722204-07 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45

Sample: L722204-08 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45

Sample: L722204-09 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45

Sample: L722204-10 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45

Sample: L722204-11 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45

Sample: L722204-12 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45

Sample: L722204-13 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45

Sample: L722204-14 Account: USAENVGCO Received: 09/17/14 09:00 Due Date: 09/24/14 00:00 RPT Date: 09/29/14 11:45

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Tax I.D. 62-0814289

Est. 1970

USA Environment, LP
Craig Lugowski
17301 W. Colfax Avenue, Suite 152

Golden, CO 80401

Quality Assurance Report
Level II

L722204

September 29, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1-Methylnaphthalene	< .00025	mg/l			WG743763	09/18/14 21:52
2-Chloronaphthalene	< .00005	mg/l			WG743763	09/18/14 21:52
2-Methylnaphthalene	< .00025	mg/l			WG743763	09/18/14 21:52
Acenaphthene	< .00005	mg/l			WG743763	09/18/14 21:52
Acenaphthylene	< .00005	mg/l			WG743763	09/18/14 21:52
Anthracene	< .00005	mg/l			WG743763	09/18/14 21:52
Benzo(a)anthracene	< .00005	mg/l			WG743763	09/18/14 21:52
Benzo(a)pyrene	< .00005	mg/l			WG743763	09/18/14 21:52
Benzo(b)fluoranthene	< .00005	mg/l			WG743763	09/18/14 21:52
Benzo(g,h,i)perylene	< .00005	mg/l			WG743763	09/18/14 21:52
Benzo(k)fluoranthene	< .00005	mg/l			WG743763	09/18/14 21:52
Chrysene	< .00005	mg/l			WG743763	09/18/14 21:52
Dibenz(a,h)anthracene	< .00005	mg/l			WG743763	09/18/14 21:52
Fluoranthene	< .00005	mg/l			WG743763	09/18/14 21:52
Fluorene	< .00005	mg/l			WG743763	09/18/14 21:52
Indeno(1,2,3-cd)pyrene	< .00005	mg/l			WG743763	09/18/14 21:52
Naphthalene	< .00025	mg/l			WG743763	09/18/14 21:52
Phenanthrene	< .00005	mg/l			WG743763	09/18/14 21:52
Pyrene	< .00005	mg/l			WG743763	09/18/14 21:52
2-Fluorobiphenyl		% Rec.	108.0	57.7-153	WG743763	09/18/14 21:52
Nitrobenzene-d5		% Rec.	97.00	45.1-170	WG743763	09/18/14 21:52
p-Terphenyl-d14		% Rec.	105.0	53.2-156	WG743763	09/18/14 21:52
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG743543	09/21/14 00:53
1,1,1-Trichloroethane	< .001	mg/l			WG743543	09/21/14 00:53
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG743543	09/21/14 00:53
1,1,2-Trichloroethane	< .001	mg/l			WG743543	09/21/14 00:53
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG743543	09/21/14 00:53
1,1-Dichloroethane	< .001	mg/l			WG743543	09/21/14 00:53
1,1-Dichloroethene	< .001	mg/l			WG743543	09/21/14 00:53
1,1-Dichloropropene	< .001	mg/l			WG743543	09/21/14 00:53
1,2,3-Trichlorobenzene	< .001	mg/l			WG743543	09/21/14 00:53
1,2,3-Trichloropropane	< .001	mg/l			WG743543	09/21/14 00:53
1,2,3-Trimethylbenzene	< .001	mg/l			WG743543	09/21/14 00:53
1,2,4-Trichlorobenzene	< .001	mg/l			WG743543	09/21/14 00:53
1,2,4-Trimethylbenzene	< .001	mg/l			WG743543	09/21/14 00:53
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG743543	09/21/14 00:53
1,2-Dibromoethane	< .001	mg/l			WG743543	09/21/14 00:53
1,2-Dichlorobenzene	< .001	mg/l			WG743543	09/21/14 00:53
1,2-Dichloroethane	< .001	mg/l			WG743543	09/21/14 00:53
1,2-Dichloropropane	< .001	mg/l			WG743543	09/21/14 00:53
1,3,5-Trimethylbenzene	< .001	mg/l			WG743543	09/21/14 00:53
1,3-Dichlorobenzene	< .001	mg/l			WG743543	09/21/14 00:53
1,3-Dichloropropane	< .001	mg/l			WG743543	09/21/14 00:53
1,4-Dichlorobenzene	< .001	mg/l			WG743543	09/21/14 00:53
2,2-Dichloropropane	< .001	mg/l			WG743543	09/21/14 00:53
2-Butanone (MEK)	< .01	mg/l			WG743543	09/21/14 00:53
2-Chloroethyl vinyl ether	< .05	mg/l			WG743543	09/21/14 00:53
2-Chlorotoluene	< .001	mg/l			WG743543	09/21/14 00:53
4-Chlorotoluene	< .001	mg/l			WG743543	09/21/14 00:53
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG743543	09/21/14 00:53
Acetone	< .05	mg/l			WG743543	09/21/14 00:53
Acrolein	< .025	mg/l			WG743543	09/21/14 00:53
Acrylonitrile	< .01	mg/l			WG743543	09/21/14 00:53
Benzene	< .001	mg/l			WG743543	09/21/14 00:53
Bromobenzene	< .001	mg/l			WG743543	09/21/14 00:53
Bromodichloromethane	< .001	mg/l			WG743543	09/21/14 00:53
Bromoform	< .001	mg/l			WG743543	09/21/14 00:53

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USA Environment, LP
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Golden, CO 80401

Quality Assurance Report
Level II

L722204

September 29, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Bromomethane	< .005	mg/l			WG743543	09/21/14 00:53
Carbon tetrachloride	< .001	mg/l			WG743543	09/21/14 00:53
Chlorobenzene	< .001	mg/l			WG743543	09/21/14 00:53
Chlorodibromomethane	< .001	mg/l			WG743543	09/21/14 00:53
Chloroethane	< .005	mg/l			WG743543	09/21/14 00:53
Chloroform	< .005	mg/l			WG743543	09/21/14 00:53
Chloromethane	< .0025	mg/l			WG743543	09/21/14 00:53
cis-1,2-Dichloroethene	< .001	mg/l			WG743543	09/21/14 00:53
cis-1,3-Dichloropropene	< .001	mg/l			WG743543	09/21/14 00:53
Di-isopropyl ether	< .001	mg/l			WG743543	09/21/14 00:53
Dibromomethane	< .001	mg/l			WG743543	09/21/14 00:53
Dichlorodifluoromethane	< .005	mg/l			WG743543	09/21/14 00:53
Ethylbenzene	< .001	mg/l			WG743543	09/21/14 00:53
Hexachloro-1,3-butadiene	< .001	mg/l			WG743543	09/21/14 00:53
Isopropylbenzene	< .001	mg/l			WG743543	09/21/14 00:53
Methyl tert-butyl ether	< .001	mg/l			WG743543	09/21/14 00:53
Methylene Chloride	< .005	mg/l			WG743543	09/21/14 00:53
n-Butylbenzene	< .001	mg/l			WG743543	09/21/14 00:53
n-Propylbenzene	< .001	mg/l			WG743543	09/21/14 00:53
Naphthalene	< .005	mg/l			WG743543	09/21/14 00:53
p-Isopropyltoluene	< .001	mg/l			WG743543	09/21/14 00:53
sec-Butylbenzene	< .001	mg/l			WG743543	09/21/14 00:53
Styrene	< .001	mg/l			WG743543	09/21/14 00:53
tert-Butylbenzene	< .001	mg/l			WG743543	09/21/14 00:53
Tetrachloroethene	< .001	mg/l			WG743543	09/21/14 00:53
Toluene	< .005	mg/l			WG743543	09/21/14 00:53
trans-1,2-Dichloroethene	< .001	mg/l			WG743543	09/21/14 00:53
trans-1,3-Dichloropropene	< .001	mg/l			WG743543	09/21/14 00:53
Trichloroethene	< .001	mg/l			WG743543	09/21/14 00:53
Trichlorofluoromethane	< .005	mg/l			WG743543	09/21/14 00:53
Vinyl chloride	< .001	mg/l			WG743543	09/21/14 00:53
Xylenes, Total	< .003	mg/l			WG743543	09/21/14 00:53
4-Bromofluorobenzene		% Rec.	98.90	71-126	WG743543	09/21/14 00:53
Dibromofluoromethane		% Rec.	105.0	78.3-121	WG743543	09/21/14 00:53
Toluene-d8		% Rec.	102.0	88.5-111	WG743543	09/21/14 00:53
1-Methylnaphthalene	< .00025	mg/l			WG744065	09/21/14 02:10
2-Chloronaphthalene	< .00005	mg/l			WG744065	09/21/14 02:10
2-Methylnaphthalene	< .00025	mg/l			WG744065	09/21/14 02:10
Acenaphthene	< .00005	mg/l			WG744065	09/21/14 02:10
Acenaphthylene	< .00005	mg/l			WG744065	09/21/14 02:10
Anthracene	< .00005	mg/l			WG744065	09/21/14 02:10
Benzo(a)anthracene	< .00005	mg/l			WG744065	09/21/14 02:10
Benzo(a)pyrene	< .00005	mg/l			WG744065	09/21/14 02:10
Benzo(b)fluoranthene	< .00005	mg/l			WG744065	09/21/14 02:10
Benzo(g,h,i)perylene	< .00005	mg/l			WG744065	09/21/14 02:10
Benzo(k)fluoranthene	< .00005	mg/l			WG744065	09/21/14 02:10
Chrysene	< .00005	mg/l			WG744065	09/21/14 02:10
Dibenz(a,h)anthracene	< .00005	mg/l			WG744065	09/21/14 02:10
Fluoranthene	< .00005	mg/l			WG744065	09/21/14 02:10
Fluorene	< .00005	mg/l			WG744065	09/21/14 02:10
Indeno(1,2,3-cd)pyrene	< .00005	mg/l			WG744065	09/21/14 02:10
Naphthalene	< .00025	mg/l			WG744065	09/21/14 02:10
Phenanthrene	< .00005	mg/l			WG744065	09/21/14 02:10
Pyrene	< .00005	mg/l			WG744065	09/21/14 02:10
2-Fluorobiphenyl		% Rec.	104.0	57.7-153	WG744065	09/21/14 02:10
Nitrobenzene-d5		% Rec.	93.50	45.1-170	WG744065	09/21/14 02:10
p-Terphenyl-d14		% Rec.	107.0	53.2-156	WG744065	09/21/14 02:10

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Quality Assurance Report
Level II

L722204

September 29, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG743542	09/20/14 21:25
1,1,1-Trichloroethane	< .001	mg/l			WG743542	09/20/14 21:25
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG743542	09/20/14 21:25
1,1,2-Trichloroethane	< .001	mg/l			WG743542	09/20/14 21:25
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG743542	09/20/14 21:25
1,1-Dichloroethane	< .001	mg/l			WG743542	09/20/14 21:25
1,1-Dichloroethene	< .001	mg/l			WG743542	09/20/14 21:25
1,1-Dichloropropene	< .001	mg/l			WG743542	09/20/14 21:25
1,2,3-Trichlorobenzene	< .001	mg/l			WG743542	09/20/14 21:25
1,2,3-Trichloropropane	< .001	mg/l			WG743542	09/20/14 21:25
1,2,3-Trimethylbenzene	< .001	mg/l			WG743542	09/20/14 21:25
1,2,4-Trichlorobenzene	< .001	mg/l			WG743542	09/20/14 21:25
1,2,4-Trimethylbenzene	< .001	mg/l			WG743542	09/20/14 21:25
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG743542	09/20/14 21:25
1,2-Dibromoethane	< .001	mg/l			WG743542	09/20/14 21:25
1,2-Dichlorobenzene	< .001	mg/l			WG743542	09/20/14 21:25
1,2-Dichloroethane	< .001	mg/l			WG743542	09/20/14 21:25
1,2-Dichloropropane	< .001	mg/l			WG743542	09/20/14 21:25
1,3,5-Trimethylbenzene	< .001	mg/l			WG743542	09/20/14 21:25
1,3-Dichlorobenzene	< .001	mg/l			WG743542	09/20/14 21:25
1,3-Dichloropropane	< .001	mg/l			WG743542	09/20/14 21:25
1,4-Dichlorobenzene	< .001	mg/l			WG743542	09/20/14 21:25
2,2-Dichloropropane	< .001	mg/l			WG743542	09/20/14 21:25
2-Butanone (MEK)	< .01	mg/l			WG743542	09/20/14 21:25
2-Chloroethyl vinyl ether	< .05	mg/l			WG743542	09/20/14 21:25
2-Chlorotoluene	< .001	mg/l			WG743542	09/20/14 21:25
4-Chlorotoluene	< .001	mg/l			WG743542	09/20/14 21:25
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG743542	09/20/14 21:25
Acetone	< .05	mg/l			WG743542	09/20/14 21:25
Acrolein	< .025	mg/l			WG743542	09/20/14 21:25
Acrylonitrile	< .01	mg/l			WG743542	09/20/14 21:25
Benzene	< .001	mg/l			WG743542	09/20/14 21:25
Bromobenzene	< .001	mg/l			WG743542	09/20/14 21:25
Bromodichloromethane	< .001	mg/l			WG743542	09/20/14 21:25
Bromoform	< .001	mg/l			WG743542	09/20/14 21:25
Bromomethane	< .005	mg/l			WG743542	09/20/14 21:25
Carbon tetrachloride	< .001	mg/l			WG743542	09/20/14 21:25
Chlorobenzene	< .001	mg/l			WG743542	09/20/14 21:25
Chlorodibromomethane	< .001	mg/l			WG743542	09/20/14 21:25
Chloroethane	< .005	mg/l			WG743542	09/20/14 21:25
Chloroform	< .005	mg/l			WG743542	09/20/14 21:25
Chloromethane	< .0025	mg/l			WG743542	09/20/14 21:25
cis-1,2-Dichloroethene	< .001	mg/l			WG743542	09/20/14 21:25
cis-1,3-Dichloropropene	< .001	mg/l			WG743542	09/20/14 21:25
Di-isopropyl ether	< .001	mg/l			WG743542	09/20/14 21:25
Dibromomethane	< .001	mg/l			WG743542	09/20/14 21:25
Dichlorodifluoromethane	< .005	mg/l			WG743542	09/20/14 21:25
Ethylbenzene	< .001	mg/l			WG743542	09/20/14 21:25
Hexachloro-1,3-butadiene	< .001	mg/l			WG743542	09/20/14 21:25
Isopropylbenzene	< .001	mg/l			WG743542	09/20/14 21:25
Methyl tert-butyl ether	< .001	mg/l			WG743542	09/20/14 21:25
Methylene Chloride	< .005	mg/l			WG743542	09/20/14 21:25
n-Butylbenzene	< .001	mg/l			WG743542	09/20/14 21:25
n-Propylbenzene	< .001	mg/l			WG743542	09/20/14 21:25
Naphthalene	< .005	mg/l			WG743542	09/20/14 21:25
p-Isopropyltoluene	< .001	mg/l			WG743542	09/20/14 21:25
sec-Butylbenzene	< .001	mg/l			WG743542	09/20/14 21:25
Styrene	< .001	mg/l			WG743542	09/20/14 21:25
tert-Butylbenzene	< .001	mg/l			WG743542	09/20/14 21:25

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Quality Assurance Report
Level II

L722204

September 29, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Tetrachloroethene	< .001	mg/l			WG743542	09/20/14 21:25
Toluene	< .005	mg/l			WG743542	09/20/14 21:25
trans-1,2-Dichloroethene	< .001	mg/l			WG743542	09/20/14 21:25
trans-1,3-Dichloropropene	< .001	mg/l			WG743542	09/20/14 21:25
Trichloroethene	< .001	mg/l			WG743542	09/20/14 21:25
Trichlorofluoromethane	< .005	mg/l			WG743542	09/20/14 21:25
Vinyl chloride	< .001	mg/l			WG743542	09/20/14 21:25
Xylenes, Total	< .003	mg/l			WG743542	09/20/14 21:25
4-Bromofluorobenzene		% Rec.	98.40	71-126	WG743542	09/20/14 21:25
Dibromofluoromethane		% Rec.	103.0	78.3-121	WG743542	09/20/14 21:25
Toluene-d8		% Rec.	98.50	88.5-111	WG743542	09/20/14 21:25
1-Methylnaphthalene	< .00025	mg/l			WG744246	09/22/14 10:44
2-Chloronaphthalene	< .00005	mg/l			WG744246	09/22/14 10:44
2-Methylnaphthalene	< .00025	mg/l			WG744246	09/22/14 10:44
Acenaphthene	< .00005	mg/l			WG744246	09/22/14 10:44
Acenaphthylene	< .00005	mg/l			WG744246	09/22/14 10:44
Anthracene	< .00005	mg/l			WG744246	09/22/14 10:44
Benzo(a)anthracene	< .00005	mg/l			WG744246	09/22/14 10:44
Benzo(a)pyrene	< .00005	mg/l			WG744246	09/22/14 10:44
Benzo(b)fluoranthene	< .00005	mg/l			WG744246	09/22/14 10:44
Benzo(g,h,i)perylene	< .00005	mg/l			WG744246	09/22/14 10:44
Benzo(k)fluoranthene	< .00005	mg/l			WG744246	09/22/14 10:44
Chrysene	< .00005	mg/l			WG744246	09/22/14 10:44
Dibenz(a,h)anthracene	< .00005	mg/l			WG744246	09/22/14 10:44
Fluoranthene	< .00005	mg/l			WG744246	09/22/14 10:44
Fluorene	< .00005	mg/l			WG744246	09/22/14 10:44
Indeno(1,2,3-cd)pyrene	< .00005	mg/l			WG744246	09/22/14 10:44
Naphthalene	< .00025	mg/l			WG744246	09/22/14 10:44
Phenanthrene	< .00005	mg/l			WG744246	09/22/14 10:44
Pyrene	< .00005	mg/l			WG744246	09/22/14 10:44
2-Fluorobiphenyl		% Rec.	79.20	57.7-153	WG744246	09/22/14 10:44
Nitrobenzene-d5		% Rec.	76.90	45.1-170	WG744246	09/22/14 10:44
p-Terphenyl-d14		% Rec.	78.30	53.2-156	WG744246	09/22/14 10:44
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG744517	09/23/14 12:28
1,1,1-Trichloroethane	< .001	mg/l			WG744517	09/23/14 12:28
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG744517	09/23/14 12:28
1,1,2-Trichloroethane	< .001	mg/l			WG744517	09/23/14 12:28
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG744517	09/23/14 12:28
1,1-Dichloroethane	< .001	mg/l			WG744517	09/23/14 12:28
1,1-Dichloroethene	< .001	mg/l			WG744517	09/23/14 12:28
1,1-Dichloropropene	< .001	mg/l			WG744517	09/23/14 12:28
1,2,3-Trichlorobenzene	< .001	mg/l			WG744517	09/23/14 12:28
1,2,3-Trichloropropane	< .001	mg/l			WG744517	09/23/14 12:28
1,2,3-Trimethylbenzene	< .001	mg/l			WG744517	09/23/14 12:28
1,2,4-Trichlorobenzene	< .001	mg/l			WG744517	09/23/14 12:28
1,2,4-Trimethylbenzene	< .001	mg/l			WG744517	09/23/14 12:28
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG744517	09/23/14 12:28
1,2-Dibromoethane	< .001	mg/l			WG744517	09/23/14 12:28
1,2-Dichlorobenzene	< .001	mg/l			WG744517	09/23/14 12:28
1,2-Dichloroethane	< .001	mg/l			WG744517	09/23/14 12:28
1,2-Dichloropropane	< .001	mg/l			WG744517	09/23/14 12:28
1,3,5-Trimethylbenzene	< .001	mg/l			WG744517	09/23/14 12:28
1,3-Dichlorobenzene	< .001	mg/l			WG744517	09/23/14 12:28
1,3-Dichloropropane	< .001	mg/l			WG744517	09/23/14 12:28
1,4-Dichlorobenzene	< .001	mg/l			WG744517	09/23/14 12:28

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Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
2,2-Dichloropropane	< .001	mg/l			WG744517	09/23/14 12:28
2-Butanone (MEK)	< .01	mg/l			WG744517	09/23/14 12:28
2-Chloroethyl vinyl ether	< .05	mg/l			WG744517	09/23/14 12:28
2-Chlorotoluene	< .001	mg/l			WG744517	09/23/14 12:28
4-Chlorotoluene	< .001	mg/l			WG744517	09/23/14 12:28
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG744517	09/23/14 12:28
Acetone	< .05	mg/l			WG744517	09/23/14 12:28
Acrolein	< .025	mg/l			WG744517	09/23/14 12:28
Acrylonitrile	< .01	mg/l			WG744517	09/23/14 12:28
Benzene	< .001	mg/l			WG744517	09/23/14 12:28
Bromobenzene	< .001	mg/l			WG744517	09/23/14 12:28
Bromodichloromethane	< .001	mg/l			WG744517	09/23/14 12:28
Bromoform	< .001	mg/l			WG744517	09/23/14 12:28
Bromomethane	< .005	mg/l			WG744517	09/23/14 12:28
Carbon tetrachloride	< .001	mg/l			WG744517	09/23/14 12:28
Chlorobenzene	< .001	mg/l			WG744517	09/23/14 12:28
Chlorodibromomethane	< .001	mg/l			WG744517	09/23/14 12:28
Chloroethane	< .005	mg/l			WG744517	09/23/14 12:28
Chloroform	< .005	mg/l			WG744517	09/23/14 12:28
Chloromethane	< .0025	mg/l			WG744517	09/23/14 12:28
cis-1,2-Dichloroethene	< .001	mg/l			WG744517	09/23/14 12:28
cis-1,3-Dichloropropene	< .001	mg/l			WG744517	09/23/14 12:28
Di-isopropyl ether	< .001	mg/l			WG744517	09/23/14 12:28
Dibromomethane	< .001	mg/l			WG744517	09/23/14 12:28
Dichlorodifluoromethane	< .005	mg/l			WG744517	09/23/14 12:28
Ethylbenzene	< .001	mg/l			WG744517	09/23/14 12:28
Hexachloro-1,3-butadiene	< .001	mg/l			WG744517	09/23/14 12:28
Isopropylbenzene	< .001	mg/l			WG744517	09/23/14 12:28
Methyl tert-butyl ether	< .001	mg/l			WG744517	09/23/14 12:28
Methylene Chloride	< .005	mg/l			WG744517	09/23/14 12:28
n-Butylbenzene	< .001	mg/l			WG744517	09/23/14 12:28
n-Propylbenzene	< .001	mg/l			WG744517	09/23/14 12:28
Naphthalene	< .005	mg/l			WG744517	09/23/14 12:28
p-Isopropyltoluene	< .001	mg/l			WG744517	09/23/14 12:28
sec-Butylbenzene	< .001	mg/l			WG744517	09/23/14 12:28
Styrene	< .001	mg/l			WG744517	09/23/14 12:28
tert-Butylbenzene	< .001	mg/l			WG744517	09/23/14 12:28
Tetrachloroethene	< .001	mg/l			WG744517	09/23/14 12:28
Toluene	< .005	mg/l			WG744517	09/23/14 12:28
trans-1,2-Dichloroethene	< .001	mg/l			WG744517	09/23/14 12:28
trans-1,3-Dichloropropene	< .001	mg/l			WG744517	09/23/14 12:28
Trichloroethene	< .001	mg/l			WG744517	09/23/14 12:28
Trichlorofluoromethane	< .005	mg/l			WG744517	09/23/14 12:28
Vinyl chloride	< .001	mg/l			WG744517	09/23/14 12:28
Xylenes, Total	< .003	mg/l			WG744517	09/23/14 12:28
4-Bromofluorobenzene		% Rec.	107.0	71-126	WG744517	09/23/14 12:28
Dibromofluoromethane		% Rec.	104.0	78.3-121	WG744517	09/23/14 12:28
Toluene-d8		% Rec.	97.30	88.5-111	WG744517	09/23/14 12:28

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1-Methylnaphthalene	mg/l	.002	0.00229	114.	73.2-141	WG743763
2-Chloronaphthalene	mg/l	.002	0.00225	112.	74.2-135	WG743763
2-Methylnaphthalene	mg/l	.002	0.00228	114.	72.4-141	WG743763
Acenaphthene	mg/l	.002	0.00215	107.	76.2-136	WG743763
Acenaphthylene	mg/l	.002	0.00218	109.	71.3-139	WG743763
Anthracene	mg/l	.002	0.00235	117.	77.3-144	WG743763
Benzo(a)anthracene	mg/l	.002	0.00218	109.	71.4-142	WG743763

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Quality Assurance Report
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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Benzo(a)pyrene	mg/l	.002	0.00221	110.	70.8-140	WG743763
Benzo(b)fluoranthene	mg/l	.002	0.00212	106.	68-142	WG743763
Benzo(g,h,i)perylene	mg/l	.002	0.00234	117.	62.8-146	WG743763
Benzo(k)fluoranthene	mg/l	.002	0.00235	118.	70.1-144	WG743763
Chrysene	mg/l	.002	0.00245	122.	73.6-143	WG743763
Dibenz(a,h)anthracene	mg/l	.002	0.00234	117.	56.1-147	WG743763
Fluoranthene	mg/l	.002	0.00234	117.	77.9-147	WG743763
Fluorene	mg/l	.002	0.00221	110.	75.3-136	WG743763
Indeno(1,2,3-cd)pyrene	mg/l	.002	0.00236	118.	61.6-147	WG743763
Naphthalene	mg/l	.002	0.00223	111.	72.2-137	WG743763
Phenanthrene	mg/l	.002	0.00222	111.	76-133	WG743763
Pyrene	mg/l	.002	0.00219	110.	73-139	WG743763
2-Fluorobiphenyl				106.0	57.7-153	WG743763
Nitrobenzene-d5				96.30	45.1-170	WG743763
p-Terphenyl-d14				102.0	53.2-156	WG743763
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0249	99.4	74.2-124	WG743543
1,1,1-Trichloroethane	mg/l	.025	0.0276	111.	73.2-123	WG743543
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0289	116.	70.7-122	WG743543
1,1,2-Trichloroethane	mg/l	.025	0.0292	117.	77.7-118	WG743543
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0260	104.	67.2-143	WG743543
1,1-Dichloroethane	mg/l	.025	0.0239	95.6	70.7-126	WG743543
1,1-Dichloroethene	mg/l	.025	0.0242	96.8	67.8-129	WG743543
1,1-Dichloropropene	mg/l	.025	0.0258	103.	73.1-125	WG743543
1,2,3-Trichlorobenzene	mg/l	.025	0.0271	109.	64.9-135	WG743543
1,2,3-Trichloropropane	mg/l	.025	0.0320	128.*	71.8-121	WG743543
1,2,3-Trimethylbenzene	mg/l	.025	0.0240	95.9	72.3-116	WG743543
1,2,4-Trichlorobenzene	mg/l	.025	0.0257	103.	69.7-136	WG743543
1,2,4-Trimethylbenzene	mg/l	.025	0.0253	101.	75-123	WG743543
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0265	106.	65.4-128	WG743543
1,2-Dibromoethane	mg/l	.025	0.0292	117.	76.6-121	WG743543
1,2-Dichlorobenzene	mg/l	.025	0.0251	100.	78.4-117	WG743543
1,2-Dichloroethane	mg/l	.025	0.0277	111.	68.8-124	WG743543
1,2-Dichloropropane	mg/l	.025	0.0234	93.6	76.5-119	WG743543
1,3,5-Trimethylbenzene	mg/l	.025	0.0256	102.	75.6-124	WG743543
1,3-Dichlorobenzene	mg/l	.025	0.0269	107.	70.8-128	WG743543
1,3-Dichloropropane	mg/l	.025	0.0272	109.	77.4-117	WG743543
1,4-Dichlorobenzene	mg/l	.025	0.0245	97.9	78.8-115	WG743543
2,2-Dichloropropane	mg/l	.025	0.0250	99.9	62.4-133	WG743543
2-Butanone (MEK)	mg/l	.125	0.151	120.	55-149	WG743543
2-Chloroethyl vinyl ether	mg/l	.125	0.114	91.6	43.8-150	WG743543
2-Chlorotoluene	mg/l	.025	0.0252	101.	74.7-122	WG743543
4-Chlorotoluene	mg/l	.025	0.0261	104.	77.5-120	WG743543
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.132	105.	70.5-133	WG743543
Acetone	mg/l	.125	0.161	128.	35.6-163	WG743543
Acrolein	mg/l	.125	0.117	93.5	10-190	WG743543
Acrylonitrile	mg/l	.125	0.143	114.	55.2-130	WG743543
Benzene	mg/l	.025	0.0251	100.	74.8-121	WG743543
Bromobenzene	mg/l	.025	0.0255	102.	77.5-116	WG743543
Bromodichloromethane	mg/l	.025	0.0252	101.	75.1-116	WG743543
Bromoform	mg/l	.025	0.0272	109.	67.5-130	WG743543
Bromomethane	mg/l	.025	0.0262	105.	49.9-162	WG743543
Carbon tetrachloride	mg/l	.025	0.0262	105.	70.2-123	WG743543
Chlorobenzene	mg/l	.025	0.0260	104.	78.1-119	WG743543
Chlorodibromomethane	mg/l	.025	0.0284	114.	74-121	WG743543
Chloroethane	mg/l	.025	0.0227	91.0	61.7-135	WG743543
Chloroform	mg/l	.025	0.0264	106.	76-121	WG743543
Chloromethane	mg/l	.025	0.0200	80.1	61.5-129	WG743543

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
cis-1,2-Dichloroethene	mg/l	.025	0.0265	106.	76-119	WG743543
cis-1,3-Dichloropropene	mg/l	.025	0.0251	100.	78.2-120	WG743543
Di-isopropyl ether	mg/l	.025	0.0253	101.	65.6-132	WG743543
Dibromomethane	mg/l	.025	0.0276	110.	79.5-118	WG743543
Dichlorodifluoromethane	mg/l	.025	0.0255	102.	54.8-135	WG743543
Ethylbenzene	mg/l	.025	0.0259	104.	78.8-122	WG743543
Hexachloro-1,3-butadiene	mg/l	.025	0.0228	91.2	64.7-129	WG743543
Isopropylbenzene	mg/l	.025	0.0256	102.	78.6-132	WG743543
Methyl tert-butyl ether	mg/l	.025	0.0251	100.	71.2-126	WG743543
Methylene Chloride	mg/l	.025	0.0258	103.	70.3-120	WG743543
n-Butylbenzene	mg/l	.025	0.0235	93.8	76.2-126	WG743543
n-Propylbenzene	mg/l	.025	0.0257	103.	78.2-122	WG743543
Naphthalene	mg/l	.025	0.0287	115.	68.4-128	WG743543
p-Isopropyltoluene	mg/l	.025	0.0254	102.	74-131	WG743543
sec-Butylbenzene	mg/l	.025	0.0258	103.	74.4-127	WG743543
Styrene	mg/l	.025	0.0249	99.8	80.4-126	WG743543
tert-Butylbenzene	mg/l	.025	0.0258	103.	75.3-126	WG743543
Tetrachloroethene	mg/l	.025	0.0258	103.	72.6-126	WG743543
Toluene	mg/l	.025	0.0244	97.8	79.7-116	WG743543
trans-1,2-Dichloroethene	mg/l	.025	0.0256	102.	72.6-121	WG743543
trans-1,3-Dichloropropene	mg/l	.025	0.0269	107.	74.3-123	WG743543
Trichloroethene	mg/l	.025	0.0254	102.	77.7-118	WG743543
Trichlorofluoromethane	mg/l	.025	0.0262	105.	63.5-135	WG743543
Vinyl chloride	mg/l	.025	0.0226	90.5	65.9-128	WG743543
Xylenes, Total	mg/l	.075	0.0734	97.9	78.7-121	WG743543
4-Bromofluorobenzene				103.0	71-126	WG743543
Dibromofluoromethane				108.0	78.3-121	WG743543
Toluene-d8				101.0	88.5-111	WG743543
1-Methylnaphthalene	mg/l	.002	0.00224	112.	73.2-141	WG744065
2-Chloronaphthalene	mg/l	.002	0.00219	110.	74.2-135	WG744065
2-Methylnaphthalene	mg/l	.002	0.00223	112.	72.4-141	WG744065
Acenaphthene	mg/l	.002	0.00214	107.	76.2-136	WG744065
Acenaphthylene	mg/l	.002	0.00216	108.	71.3-139	WG744065
Anthracene	mg/l	.002	0.00235	117.	77.3-144	WG744065
Benzo(a)anthracene	mg/l	.002	0.00206	103.	71.4-142	WG744065
Benzo(a)pyrene	mg/l	.002	0.00213	107.	70.8-140	WG744065
Benzo(b)fluoranthene	mg/l	.002	0.00210	105.	68-142	WG744065
Benzo(g,h,i)perylene	mg/l	.002	0.00217	108.	62.8-146	WG744065
Benzo(k)fluoranthene	mg/l	.002	0.00216	108.	70.1-144	WG744065
Chrysene	mg/l	.002	0.00234	117.	73.6-143	WG744065
Dibenz(a,h)anthracene	mg/l	.002	0.00216	108.	56.1-147	WG744065
Fluoranthene	mg/l	.002	0.00235	118.	77.9-147	WG744065
Fluorene	mg/l	.002	0.00221	110.	75.3-136	WG744065
Indeno(1,2,3-cd)pyrene	mg/l	.002	0.00219	109.	61.6-147	WG744065
Naphthalene	mg/l	.002	0.00218	109.	72.2-137	WG744065
Phenanthrene	mg/l	.002	0.00222	111.	76-133	WG744065
Pyrene	mg/l	.002	0.00212	106.	73-139	WG744065
2-Fluorobiphenyl				105.0	57.7-153	WG744065
Nitrobenzene-d5				96.80	45.1-170	WG744065
p-Terphenyl-d14				99.10	53.2-156	WG744065
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0270	108.	74.2-124	WG743542
1,1,1-Trichloroethane	mg/l	.025	0.0261	105.	73.2-123	WG743542
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0241	96.3	70.7-122	WG743542
1,1,2-Trichloroethane	mg/l	.025	0.0249	99.7	77.7-118	WG743542
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0239	95.6	67.2-143	WG743542

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1-Dichloroethane	mg/l	.025	0.0241	96.6	70.7-126	WG743542
1,1-Dichloroethene	mg/l	.025	0.0238	95.2	67.8-129	WG743542
1,1-Dichloropropene	mg/l	.025	0.0238	95.1	73.1-125	WG743542
1,2,3-Trichlorobenzene	mg/l	.025	0.0262	105.	64.9-135	WG743542
1,2,3-Trichloropropane	mg/l	.025	0.0254	102.	71.8-121	WG743542
1,2,3-Trimethylbenzene	mg/l	.025	0.0243	97.0	72.3-116	WG743542
1,2,4-Trichlorobenzene	mg/l	.025	0.0246	98.5	69.7-136	WG743542
1,2,4-Trimethylbenzene	mg/l	.025	0.0271	108.	75-123	WG743542
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0212	84.8	65.4-128	WG743542
1,2-Dibromoethane	mg/l	.025	0.0248	99.3	76.6-121	WG743542
1,2-Dichlorobenzene	mg/l	.025	0.0244	97.7	78.4-117	WG743542
1,2-Dichloroethane	mg/l	.025	0.0250	100.	68.8-124	WG743542
1,2-Dichloropropane	mg/l	.025	0.0238	95.3	76.5-119	WG743542
1,3,5-Trimethylbenzene	mg/l	.025	0.0272	109.	75.6-124	WG743542
1,3-Dichlorobenzene	mg/l	.025	0.0286	114.	70.8-128	WG743542
1,3-Dichloropropane	mg/l	.025	0.0240	95.9	77.4-117	WG743542
1,4-Dichlorobenzene	mg/l	.025	0.0242	96.9	78.8-115	WG743542
2,2-Dichloropropane	mg/l	.025	0.0247	99.0	62.4-133	WG743542
2-Butanone (MEK)	mg/l	.125	0.105	83.7	55-149	WG743542
2-Chloroethyl vinyl ether	mg/l	.125	0.106	84.6	43.8-150	WG743542
2-Chlorotoluene	mg/l	.025	0.0270	108.	74.7-122	WG743542
4-Chlorotoluene	mg/l	.025	0.0262	105.	77.5-120	WG743542
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.108	86.2	70.5-133	WG743542
Acetone	mg/l	.125	0.122	97.5	35.6-163	WG743542
Acrolein	mg/l	.125	0.120	95.9	10-190	WG743542
Acrylonitrile	mg/l	.125	0.111	89.2	55.2-130	WG743542
Benzene	mg/l	.025	0.0230	92.0	74.8-121	WG743542
Bromobenzene	mg/l	.025	0.0246	98.3	77.5-116	WG743542
Bromodichloromethane	mg/l	.025	0.0241	96.4	75.1-116	WG743542
Bromoform	mg/l	.025	0.0259	103.	67.5-130	WG743542
Bromomethane	mg/l	.025	0.0214	85.7	49.9-162	WG743542
Carbon tetrachloride	mg/l	.025	0.0266	107.	70.2-123	WG743542
Chlorobenzene	mg/l	.025	0.0242	97.0	78.1-119	WG743542
Chlorodibromomethane	mg/l	.025	0.0270	108.	74-121	WG743542
Chloroethane	mg/l	.025	0.0215	85.8	61.7-135	WG743542
Chloroform	mg/l	.025	0.0242	96.8	76-121	WG743542
Chloromethane	mg/l	.025	0.0236	94.3	61.5-129	WG743542
cis-1,2-Dichloroethene	mg/l	.025	0.0244	97.4	76-119	WG743542
cis-1,3-Dichloropropene	mg/l	.025	0.0245	98.0	78.2-120	WG743542
Di-isopropyl ether	mg/l	.025	0.0260	104.	65.6-132	WG743542
Dibromomethane	mg/l	.025	0.0237	94.7	79.5-118	WG743542
Dichlorodifluoromethane	mg/l	.025	0.0241	96.3	54.8-135	WG743542
Ethylbenzene	mg/l	.025	0.0262	105.	78.8-122	WG743542
Hexachloro-1,3-butadiene	mg/l	.025	0.0255	102.	64.7-129	WG743542
Isopropylbenzene	mg/l	.025	0.0272	109.	78.6-132	WG743542
Methyl tert-butyl ether	mg/l	.025	0.0234	93.6	71.2-126	WG743542
Methylene Chloride	mg/l	.025	0.0230	92.1	70.3-120	WG743542
n-Butylbenzene	mg/l	.025	0.0248	99.0	76.2-126	WG743542
n-Propylbenzene	mg/l	.025	0.0263	105.	78.2-122	WG743542
Naphthalene	mg/l	.025	0.0236	94.6	68.4-128	WG743542
p-Isopropyltoluene	mg/l	.025	0.0286	114.	74-131	WG743542
sec-Butylbenzene	mg/l	.025	0.0275	110.	74.4-127	WG743542
Styrene	mg/l	.025	0.0270	108.	80.4-126	WG743542
tert-Butylbenzene	mg/l	.025	0.0282	113.	75.3-126	WG743542
Tetrachloroethene	mg/l	.025	0.0255	102.	72.6-126	WG743542
Toluene	mg/l	.025	0.0231	92.4	79.7-116	WG743542
trans-1,2-Dichloroethene	mg/l	.025	0.0238	95.1	72.6-121	WG743542
trans-1,3-Dichloropropene	mg/l	.025	0.0247	98.6	74.3-123	WG743542
Trichloroethene	mg/l	.025	0.0247	98.9	77.7-118	WG743542

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Trichlorofluoromethane	mg/l	.025	0.0253	101.	63.5-135	WG743542
Vinyl chloride	mg/l	.025	0.0234	93.6	65.9-128	WG743542
Xylenes, Total	mg/l	.075	0.0766	102.	78.7-121	WG743542
4-Bromofluorobenzene				104.0	71-126	WG743542
Dibromofluoromethane				104.0	78.3-121	WG743542
Toluene-d8				99.10	88.5-111	WG743542
1-Methylnaphthalene	mg/l	.002	0.00185	92.6	73.2-141	WG744246
2-Chloronaphthalene	mg/l	.002	0.00181	90.5	74.2-135	WG744246
2-Methylnaphthalene	mg/l	.002	0.00185	92.4	72.4-141	WG744246
Acenaphthene	mg/l	.002	0.00173	86.5	76.2-136	WG744246
Acenaphthylene	mg/l	.002	0.00182	91.2	71.3-139	WG744246
Anthracene	mg/l	.002	0.00193	96.4	77.3-144	WG744246
Benzo(a)anthracene	mg/l	.002	0.00177	88.6	71.4-142	WG744246
Benzo(a)pyrene	mg/l	.002	0.00180	89.9	70.8-140	WG744246
Benzo(b)fluoranthene	mg/l	.002	0.00174	86.9	68-142	WG744246
Benzo(g,h,i)perylene	mg/l	.002	0.00185	92.4	62.8-146	WG744246
Benzo(k)fluoranthene	mg/l	.002	0.00179	89.4	70.1-144	WG744246
Chrysene	mg/l	.002	0.00188	94.0	73.6-143	WG744246
Dibenz(a,h)anthracene	mg/l	.002	0.00189	94.3	56.1-147	WG744246
Fluoranthene	mg/l	.002	0.00187	93.4	77.9-147	WG744246
Fluorene	mg/l	.002	0.00179	89.3	75.3-136	WG744246
Indeno(1,2,3-cd)pyrene	mg/l	.002	0.00189	94.7	61.6-147	WG744246
Naphthalene	mg/l	.002	0.00180	89.9	72.2-137	WG744246
Phenanthrene	mg/l	.002	0.00175	87.6	76-133	WG744246
Pyrene	mg/l	.002	0.00175	87.7	73-139	WG744246
2-Fluorobiphenyl				84.00	57.7-153	WG744246
Nitrobenzene-d5				80.40	45.1-170	WG744246
p-Terphenyl-d14				82.00	53.2-156	WG744246
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0245	97.8	74.2-124	WG744517
1,1,1-Trichloroethane	mg/l	.025	0.0237	94.9	73.2-123	WG744517
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0251	101.	70.7-122	WG744517
1,1,2-Trichloroethane	mg/l	.025	0.0261	105.	77.7-118	WG744517
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0265	106.	67.2-143	WG744517
1,1-Dichloroethane	mg/l	.025	0.0242	96.9	70.7-126	WG744517
1,1-Dichloroethene	mg/l	.025	0.0259	104.	67.8-129	WG744517
1,1-Dichloropropene	mg/l	.025	0.0242	96.7	73.1-125	WG744517
1,2,3-Trichlorobenzene	mg/l	.025	0.0233	93.3	64.9-135	WG744517
1,2,3-Trichloropropane	mg/l	.025	0.0251	100.	71.8-121	WG744517
1,2,3-Trimethylbenzene	mg/l	.025	0.0247	98.7	72.3-116	WG744517
1,2,4-Trichlorobenzene	mg/l	.025	0.0244	97.8	69.7-136	WG744517
1,2,4-Trimethylbenzene	mg/l	.025	0.0234	93.7	75-123	WG744517
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0235	94.0	65.4-128	WG744517
1,2-Dibromoethane	mg/l	.025	0.0262	105.	76.6-121	WG744517
1,2-Dichlorobenzene	mg/l	.025	0.0254	102.	78.4-117	WG744517
1,2-Dichloroethane	mg/l	.025	0.0260	104.	68.8-124	WG744517
1,2-Dichloropropane	mg/l	.025	0.0254	102.	76.5-119	WG744517
1,3,5-Trimethylbenzene	mg/l	.025	0.0237	95.0	75.6-124	WG744517
1,3-Dichlorobenzene	mg/l	.025	0.0243	97.0	70.8-128	WG744517
1,3-Dichloropropane	mg/l	.025	0.0248	99.0	77.4-117	WG744517
1,4-Dichlorobenzene	mg/l	.025	0.0250	100.	78.8-115	WG744517
2,2-Dichloropropane	mg/l	.025	0.0225	89.8	62.4-133	WG744517
2-Butanone (MEK)	mg/l	.125	0.122	97.5	55-149	WG744517
2-Chloroethyl vinyl ether	mg/l	.125	0.126	100.	43.8-150	WG744517
2-Chlorotoluene	mg/l	.025	0.0226	90.5	74.7-122	WG744517
4-Chlorotoluene	mg/l	.025	0.0236	94.3	77.5-120	WG744517

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Golden, CO 80401

Quality Assurance Report
Level II

L722204

September 29, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.124	99.3	70.5-133	WG744517
Acetone	mg/l	.125	0.127	102.	35.6-163	WG744517
Acrolein	mg/l	.125	0.0897	71.8	10-190	WG744517
Acrylonitrile	mg/l	.125	0.130	104.	55.2-130	WG744517
Benzene	mg/l	.025	0.0243	97.0	74.8-121	WG744517
Bromobenzene	mg/l	.025	0.0235	94.0	77.5-116	WG744517
Bromodichloromethane	mg/l	.025	0.0244	97.7	75.1-116	WG744517
Bromoform	mg/l	.025	0.0239	95.6	67.5-130	WG744517
Bromomethane	mg/l	.025	0.0324	130.	49.9-162	WG744517
Carbon tetrachloride	mg/l	.025	0.0239	95.6	70.2-123	WG744517
Chlorobenzene	mg/l	.025	0.0248	99.0	78.1-119	WG744517
Chlorodibromomethane	mg/l	.025	0.0247	98.8	74-121	WG744517
Chloroethane	mg/l	.025	0.0311	124.	61.7-135	WG744517
Chloroform	mg/l	.025	0.0244	97.7	76-121	WG744517
Chloromethane	mg/l	.025	0.0238	95.2	61.5-129	WG744517
cis-1,2-Dichloroethene	mg/l	.025	0.0245	98.1	76-119	WG744517
cis-1,3-Dichloropropene	mg/l	.025	0.0252	101.	78.2-120	WG744517
Di-isopropyl ether	mg/l	.025	0.0247	98.8	65.6-132	WG744517
Dibromomethane	mg/l	.025	0.0259	104.	79.5-118	WG744517
Dichlorodifluoromethane	mg/l	.025	0.0260	104.	54.8-135	WG744517
Ethylbenzene	mg/l	.025	0.0245	98.2	78.8-122	WG744517
Hexachloro-1,3-butadiene	mg/l	.025	0.0232	92.9	64.7-129	WG744517
Isopropylbenzene	mg/l	.025	0.0243	97.3	78.6-132	WG744517
Methyl tert-butyl ether	mg/l	.025	0.0238	95.3	71.2-126	WG744517
Methylene Chloride	mg/l	.025	0.0242	96.8	70.3-120	WG744517
n-Butylbenzene	mg/l	.025	0.0253	101.	76.2-126	WG744517
n-Propylbenzene	mg/l	.025	0.0239	95.6	78.2-122	WG744517
Naphthalene	mg/l	.025	0.0249	99.6	68.4-128	WG744517
p-Isopropyltoluene	mg/l	.025	0.0238	95.3	74-131	WG744517
sec-Butylbenzene	mg/l	.025	0.0236	94.5	74.4-127	WG744517
Styrene	mg/l	.025	0.0235	94.0	80.4-126	WG744517
tert-Butylbenzene	mg/l	.025	0.0246	98.2	75.3-126	WG744517
Tetrachloroethene	mg/l	.025	0.0254	102.	72.6-126	WG744517
Toluene	mg/l	.025	0.0253	101.	79.7-116	WG744517
trans-1,2-Dichloroethene	mg/l	.025	0.0236	94.3	72.6-121	WG744517
trans-1,3-Dichloropropene	mg/l	.025	0.0241	96.6	74.3-123	WG744517
Trichloroethene	mg/l	.025	0.0248	99.2	77.7-118	WG744517
Trichlorofluoromethane	mg/l	.025	0.0268	107.	63.5-135	WG744517
Vinyl chloride	mg/l	.025	0.0258	103.	65.9-128	WG744517
Xylenes, Total	mg/l	.075	0.0733	97.7	78.7-121	WG744517
4-Bromofluorobenzene				99.30	71-126	WG744517
Dibromofluoromethane				101.0	78.3-121	WG744517
Toluene-d8				98.60	88.5-111	WG744517

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1-Methylnaphthalene	mg/l	0.00224	0.00229	112.	73.2-141	2.19	20	WG743763
2-Chloronaphthalene	mg/l	0.00220	0.00225	110.	74.2-135	1.83	20	WG743763
2-Methylnaphthalene	mg/l	0.00222	0.00228	111.	72.4-141	2.66	20	WG743763
Acenaphthene	mg/l	0.00212	0.00215	106.	76.2-136	1.59	20	WG743763
Acenaphthylene	mg/l	0.00214	0.00218	107.	71.3-139	1.52	20	WG743763
Anthracene	mg/l	0.00233	0.00235	116.	77.3-144	1.01	20	WG743763
Benzo(a)anthracene	mg/l	0.00210	0.00218	105.	71.4-142	3.83	20	WG743763
Benzo(a)pyrene	mg/l	0.00223	0.00221	111.	70.8-140	0.880	20	WG743763
Benzo(b)fluoranthene	mg/l	0.00219	0.00212	109.	68-142	3.17	20	WG743763
Benzo(g,h,i)perylene	mg/l	0.00233	0.00234	116.	62.8-146	0.450	20	WG743763
Benzo(k)fluoranthene	mg/l	0.00232	0.00235	116.	70.1-144	1.16	20	WG743763
Chrysene	mg/l	0.00236	0.00245	118.	73.6-143	3.66	20	WG743763

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Golden, CO 80401

Quality Assurance Report
Level II

L722204

September 29, 2014

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Dibenz(a,h)anthracene	mg/l	0.00233	0.00234	117.	56.1-147	0.360	20	WG743763
Fluoranthene	mg/l	0.00230	0.00234	115.	77.9-147	1.59	20	WG743763
Fluorene	mg/l	0.00217	0.00221	108.	75.3-136	1.97	20	WG743763
Indeno(1,2,3-cd)pyrene	mg/l	0.00236	0.00236	118.	61.6-147	0.360	20	WG743763
Naphthalene	mg/l	0.00218	0.00223	109.	72.2-137	2.06	20	WG743763
Phenanthrene	mg/l	0.00220	0.00222	110.	76-133	0.900	20	WG743763
Pyrene	mg/l	0.00214	0.00219	107.	73-139	2.42	20	WG743763
2-Fluorobiphenyl				105.0	57.7-153			WG743763
Nitrobenzene-d5				94.70	45.1-170			WG743763
p-Terphenyl-d14				99.20	53.2-156			WG743763
1,1,1,2-Tetrachloroethane	mg/l	0.0226	0.0249	90.0	74.2-124	9.49	20	WG743543
1,1,1-Trichloroethane	mg/l	0.0254	0.0276	102.	73.2-123	8.32	20	WG743543
1,1,2,2-Tetrachloroethane	mg/l	0.0258	0.0289	103.	70.7-122	11.4	20	WG743543
1,1,2-Trichloroethane	mg/l	0.0261	0.0292	104.	77.7-118	11.4	20	WG743543
1,1,2-Trichlorotrifluoroethane	mg/l	0.0241	0.0260	96.0	67.2-143	7.77	20	WG743543
1,1-Dichloroethane	mg/l	0.0218	0.0239	87.0	70.7-126	9.30	20	WG743543
1,1-Dichloroethene	mg/l	0.0219	0.0242	87.0	67.8-129	10.1	20	WG743543
1,1-Dichloropropene	mg/l	0.0238	0.0258	95.0	73.1-125	8.09	20	WG743543
1,2,3-Trichlorobenzene	mg/l	0.0254	0.0271	102.	64.9-135	6.57	20	WG743543
1,2,3-Trichloropropane	mg/l	0.0287	0.0320	115.	71.8-121	10.8	20	WG743543
1,2,3-Trimethylbenzene	mg/l	0.0230	0.0240	92.0	72.3-116	4.33	20	WG743543
1,2,4-Trichlorobenzene	mg/l	0.0239	0.0257	95.0	69.7-136	7.25	20	WG743543
1,2,4-Trimethylbenzene	mg/l	0.0232	0.0253	93.0	75-123	8.88	20	WG743543
1,2-Dibromo-3-Chloropropane	mg/l	0.0236	0.0265	94.0	65.4-128	11.5	20	WG743543
1,2-Dibromoethane	mg/l	0.0265	0.0292	106.	76.6-121	9.71	20	WG743543
1,2-Dichlorobenzene	mg/l	0.0244	0.0251	98.0	78.4-117	2.86	20	WG743543
1,2-Dichloroethane	mg/l	0.0253	0.0277	101.	68.8-124	9.03	20	WG743543
1,2-Dichloropropane	mg/l	0.0222	0.0234	89.0	76.5-119	5.46	20	WG743543
1,3,5-Trimethylbenzene	mg/l	0.0238	0.0256	95.0	75.6-124	7.39	20	WG743543
1,3-Dichlorobenzene	mg/l	0.0249	0.0269	100.	70.8-128	7.43	20	WG743543
1,3-Dichloropropane	mg/l	0.0242	0.0272	97.0	77.4-117	11.7	20	WG743543
1,4-Dichlorobenzene	mg/l	0.0233	0.0245	93.0	78.8-115	4.98	20	WG743543
2,2-Dichloropropane	mg/l	0.0226	0.0250	90.0	62.4-133	9.92	20	WG743543
2-Butanone (MEK)	mg/l	0.128	0.151	102.	55-149	16.1	20	WG743543
2-Chloroethyl vinyl ether	mg/l	0.0971	0.114	78.0	43.8-150	16.4	20	WG743543
2-Chlorotoluene	mg/l	0.0237	0.0252	95.0	74.7-122	6.15	20	WG743543
4-Chlorotoluene	mg/l	0.0241	0.0261	96.0	77.5-120	7.81	20	WG743543
4-Methyl-2-pentanone (MIBK)	mg/l	0.115	0.132	92.0	70.5-133	13.0	20	WG743543
Acetone	mg/l	0.137	0.161	110.	35.6-163	15.9	23.9	WG743543
Acrolein	mg/l	0.101	0.117	81.0	10-190	14.5	28.1	WG743543
Acrylonitrile	mg/l	0.122	0.143	98.0	55.2-130	15.6	20	WG743543
Benzene	mg/l	0.0234	0.0251	94.0	74.8-121	7.13	20	WG743543
Bromobenzene	mg/l	0.0235	0.0255	94.0	77.5-116	8.23	20	WG743543
Bromodichloromethane	mg/l	0.0237	0.0252	95.0	75.1-116	6.13	20	WG743543
Bromoform	mg/l	0.0235	0.0272	94.0	67.5-130	14.7	20	WG743543
Bromomethane	mg/l	0.0243	0.0262	97.0	49.9-162	7.77	20	WG743543
Carbon tetrachloride	mg/l	0.0240	0.0262	96.0	70.2-123	8.57	20	WG743543
Chlorobenzene	mg/l	0.0242	0.0260	97.0	78.1-119	7.27	20	WG743543
Chlorodibromomethane	mg/l	0.0254	0.0284	102.	74-121	11.2	20	WG743543
Chloroethane	mg/l	0.0203	0.0227	81.0	61.7-135	11.3	20	WG743543
Chloroform	mg/l	0.0244	0.0264	98.0	76-121	8.00	20	WG743543
Chloromethane	mg/l	0.0188	0.0200	75.0	61.5-129	6.57	20	WG743543
cis-1,2-Dichloroethene	mg/l	0.0243	0.0265	97.0	76-119	8.69	20	WG743543
cis-1,3-Dichloropropene	mg/l	0.0235	0.0251	94.0	78.2-120	6.43	20	WG743543
Di-isopropyl ether	mg/l	0.0234	0.0253	94.0	65.6-132	7.76	20	WG743543
Dibromomethane	mg/l	0.0250	0.0276	100.	79.5-118	9.60	20	WG743543
Dichlorodifluoromethane	mg/l	0.0229	0.0255	92.0	54.8-135	10.8	20	WG743543

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Quality Assurance Report
Level II

L722204

September 29, 2014

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Ethylbenzene	mg/l	0.0239	0.0259	96.0	78.8-122	8.04	20	WG743543
Hexachloro-1,3-butadiene	mg/l	0.0223	0.0228	89.0	64.7-129	2.06	20	WG743543
Isopropylbenzene	mg/l	0.0237	0.0256	95.0	78.6-132	7.86	20	WG743543
Methyl tert-butyl ether	mg/l	0.0213	0.0251	85.0	71.2-126	16.2	20	WG743543
Methylene Chloride	mg/l	0.0235	0.0258	94.0	70.3-120	9.40	20	WG743543
n-Butylbenzene	mg/l	0.0228	0.0235	91.0	76.2-126	3.03	20	WG743543
n-Propylbenzene	mg/l	0.0237	0.0257	95.0	78.2-122	8.24	20	WG743543
Naphthalene	mg/l	0.0262	0.0287	105.	68.4-128	8.93	20	WG743543
p-Isopropyltoluene	mg/l	0.0234	0.0254	94.0	74-131	8.23	20	WG743543
sec-Butylbenzene	mg/l	0.0238	0.0258	95.0	74.4-127	8.10	20	WG743543
Styrene	mg/l	0.0224	0.0249	90.0	80.4-126	10.7	20	WG743543
tert-Butylbenzene	mg/l	0.0238	0.0258	95.0	75.3-126	7.85	20	WG743543
Tetrachloroethene	mg/l	0.0239	0.0258	96.0	72.6-126	7.58	20	WG743543
Toluene	mg/l	0.0233	0.0244	93.0	79.7-116	4.80	20	WG743543
trans-1,2-Dichloroethene	mg/l	0.0236	0.0256	94.0	72.6-121	7.78	20	WG743543
trans-1,3-Dichloropropene	mg/l	0.0248	0.0269	99.0	74.3-123	8.09	20	WG743543
Trichloroethene	mg/l	0.0243	0.0254	97.0	77.7-118	4.62	20	WG743543
Trichlorofluoromethane	mg/l	0.0247	0.0262	99.0	63.5-135	6.05	20	WG743543
Vinyl chloride	mg/l	0.0206	0.0226	82.0	65.9-128	9.42	20	WG743543
Xylenes, Total	mg/l	0.0677	0.0734	90.0	78.7-121	8.04	20	WG743543
4-Bromofluorobenzene				99.10	71-126			WG743543
Dibromofluoromethane				106.0	78.3-121			WG743543
Toluene-d8				102.0	88.5-111			WG743543
1-Methylnaphthalene	mg/l	0.00223	0.00224	112.	73.2-141	0.480	20	WG744065
2-Chloronaphthalene	mg/l	0.00217	0.00219	109.	74.2-135	0.850	20	WG744065
2-Methylnaphthalene	mg/l	0.00221	0.00223	110.	72.4-141	1.23	20	WG744065
Acenaphthene	mg/l	0.00214	0.00214	107.	76.2-136	0.150	20	WG744065
Acenaphthylene	mg/l	0.00216	0.00216	108.	71.3-139	0.140	20	WG744065
Anthracene	mg/l	0.00238	0.00235	119.	77.3-144	1.40	20	WG744065
Benzo(a)anthracene	mg/l	0.00219	0.00206	109.	71.4-142	6.13	20	WG744065
Benzo(a)pyrene	mg/l	0.00224	0.00213	112.	70.8-140	5.00	20	WG744065
Benzo(b)fluoranthene	mg/l	0.00218	0.00210	109.	68-142	3.67	20	WG744065
Benzo(g,h,i)perylene	mg/l	0.00227	0.00217	114.	62.8-146	4.77	20	WG744065
Benzo(k)fluoranthene	mg/l	0.00242	0.00216	121.	70.1-144	11.1	20	WG744065
Chrysene	mg/l	0.00242	0.00234	121.	73.6-143	3.37	20	WG744065
Dibenz(a,h)anthracene	mg/l	0.00225	0.00216	112.	56.1-147	3.89	20	WG744065
Fluoranthene	mg/l	0.00241	0.00235	121.	77.9-147	2.57	20	WG744065
Fluorene	mg/l	0.00222	0.00221	111.	75.3-136	0.410	20	WG744065
Indeno(1,2,3-cd)pyrene	mg/l	0.00227	0.00219	113.	61.6-147	3.53	20	WG744065
Naphthalene	mg/l	0.00216	0.00218	108.	72.2-137	0.870	20	WG744065
Phenanthrene	mg/l	0.00227	0.00222	113.	76-133	1.97	20	WG744065
Pyrene	mg/l	0.00230	0.00212	115.	73-139	8.19	20	WG744065
2-Fluorobiphenyl				107.0	57.7-153			WG744065
Nitrobenzene-d5				96.30	45.1-170			WG744065
p-Terphenyl-d14				106.0	53.2-156			WG744065
1,1,1,2-Tetrachloroethane	mg/l	0.0269	0.0270	108.	74.2-124	0.230	20	WG743542
1,1,1-Trichloroethane	mg/l	0.0271	0.0261	108.	73.2-123	3.54	20	WG743542
1,1,2,2-Tetrachloroethane	mg/l	0.0269	0.0241	107.	70.7-122	10.9	20	WG743542
1,1,2-Trichloroethane	mg/l	0.0264	0.0249	106.	77.7-118	5.87	20	WG743542
1,1,2-Trichlorotrifluoroethane	mg/l	0.0250	0.0239	100.	67.2-143	4.61	20	WG743542
1,1-Dichloroethane	mg/l	0.0245	0.0241	98.0	70.7-126	1.59	20	WG743542
1,1-Dichloroethene	mg/l	0.0245	0.0238	98.0	67.8-129	2.85	20	WG743542
1,1-Dichloropropene	mg/l	0.0246	0.0238	98.0	73.1-125	3.64	20	WG743542
1,2,3-Trichlorobenzene	mg/l	0.0263	0.0262	105.	64.9-135	0.250	20	WG743542
1,2,3-Trichloropropane	mg/l	0.0278	0.0254	111.	71.8-121	9.07	20	WG743542

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Craig Lugowski
17301 W. Colfax Avenue, Suite 152

Golden, CO 80401

Quality Assurance Report
Level II

L722204

September 29, 2014

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,2,3-Trimethylbenzene	mg/l	0.0244	0.0243	98.0	72.3-116	0.730	20	WG743542
1,2,4-Trichlorobenzene	mg/l	0.0248	0.0246	99.0	69.7-136	0.810	20	WG743542
1,2,4-Trimethylbenzene	mg/l	0.0266	0.0271	106.	75-123	1.86	20	WG743542
1,2-Dibromo-3-Chloropropane	mg/l	0.0258	0.0212	103.	65.4-128	19.5	20	WG743542
1,2-Dibromoethane	mg/l	0.0260	0.0248	104.	76.6-121	4.64	20	WG743542
1,2-Dichlorobenzene	mg/l	0.0253	0.0244	101.	78.4-117	3.48	20	WG743542
1,2-Dichloroethane	mg/l	0.0255	0.0250	102.	68.8-124	2.02	20	WG743542
1,2-Dichloropropane	mg/l	0.0241	0.0238	96.0	76.5-119	1.19	20	WG743542
1,3,5-Trimethylbenzene	mg/l	0.0276	0.0272	110.	75.6-124	1.49	20	WG743542
1,3-Dichlorobenzene	mg/l	0.0282	0.0286	113.	70.8-128	1.34	20	WG743542
1,3-Dichloropropane	mg/l	0.0240	0.0240	96.0	77.4-117	0.0400	20	WG743542
1,4-Dichlorobenzene	mg/l	0.0252	0.0242	101.	78.8-115	4.01	20	WG743542
2,2-Dichloropropane	mg/l	0.0270	0.0247	108.	62.4-133	8.71	20	WG743542
2-Butanone (MEK)	mg/l	0.124	0.105	99.0	55-149	16.8	20	WG743542
2-Chloroethyl vinyl ether	mg/l	0.116	0.106	93.0	43.8-150	9.61	20	WG743542
2-Chlorotoluene	mg/l	0.0264	0.0270	106.	74.7-122	2.29	20	WG743542
4-Chlorotoluene	mg/l	0.0260	0.0262	104.	77.5-120	0.870	20	WG743542
4-Methyl-2-pentanone (MIBK)	mg/l	0.128	0.108	102.	70.5-133	17.1	20	WG743542
Acetone	mg/l	0.143	0.122	115.	35.6-163	16.2	23.9	WG743542
Acrolein	mg/l	0.141	0.120	113.	10-190	16.6	28.1	WG743542
Acrylonitrile	mg/l	0.130	0.111	104.	55.2-130	15.6	20	WG743542
Benzene	mg/l	0.0236	0.0230	94.0	74.8-121	2.74	20	WG743542
Bromobenzene	mg/l	0.0245	0.0246	98.0	77.5-116	0.170	20	WG743542
Bromodichloromethane	mg/l	0.0249	0.0241	100.	75.1-116	3.35	20	WG743542
Bromoform	mg/l	0.0286	0.0259	114.	67.5-130	10.1	20	WG743542
Bromomethane	mg/l	0.0224	0.0214	90.0	49.9-162	4.63	20	WG743542
Carbon tetrachloride	mg/l	0.0271	0.0266	108.	70.2-123	1.67	20	WG743542
Chlorobenzene	mg/l	0.0241	0.0242	96.0	78.1-119	0.570	20	WG743542
Chlorodibromomethane	mg/l	0.0274	0.0270	110.	74-121	1.68	20	WG743542
Chloroethane	mg/l	0.0219	0.0215	88.0	61.7-135	2.00	20	WG743542
Chloroform	mg/l	0.0248	0.0242	99.0	76-121	2.40	20	WG743542
Chloromethane	mg/l	0.0239	0.0236	96.0	61.5-129	1.46	20	WG743542
cis-1,2-Dichloroethene	mg/l	0.0249	0.0244	100.	76-119	2.22	20	WG743542
cis-1,3-Dichloropropene	mg/l	0.0249	0.0245	100.	78.2-120	1.54	20	WG743542
Di-isopropyl ether	mg/l	0.0267	0.0260	107.	65.6-132	2.70	20	WG743542
Dibromomethane	mg/l	0.0253	0.0237	101.	79.5-118	6.61	20	WG743542
Dichlorodifluoromethane	mg/l	0.0240	0.0241	96.0	54.8-135	0.150	20	WG743542
Ethylbenzene	mg/l	0.0260	0.0262	104.	78.8-122	0.780	20	WG743542
Hexachloro-1,3-butadiene	mg/l	0.0259	0.0255	104.	64.7-129	1.65	20	WG743542
Isopropylbenzene	mg/l	0.0273	0.0272	109.	78.6-132	0.440	20	WG743542
Methyl tert-butyl ether	mg/l	0.0253	0.0234	101.	71.2-126	7.67	20	WG743542
Methylene Chloride	mg/l	0.0239	0.0230	96.0	70.3-120	3.82	20	WG743542
n-Butylbenzene	mg/l	0.0252	0.0248	101.	76.2-126	1.62	20	WG743542
n-Propylbenzene	mg/l	0.0263	0.0263	105.	78.2-122	0.0300	20	WG743542
Naphthalene	mg/l	0.0260	0.0236	104.	68.4-128	9.54	20	WG743542
p-Isopropyltoluene	mg/l	0.0288	0.0286	115.	74-131	0.720	20	WG743542
sec-Butylbenzene	mg/l	0.0277	0.0275	111.	74.4-127	1.03	20	WG743542
Styrene	mg/l	0.0267	0.0270	107.	80.4-126	0.830	20	WG743542
tert-Butylbenzene	mg/l	0.0283	0.0282	113.	75.3-126	0.500	20	WG743542
Tetrachloroethene	mg/l	0.0257	0.0255	103.	72.6-126	0.990	20	WG743542
Toluene	mg/l	0.0238	0.0231	95.0	79.7-116	2.82	20	WG743542
trans-1,2-Dichloroethene	mg/l	0.0239	0.0238	96.0	72.6-121	0.650	20	WG743542
trans-1,3-Dichloropropene	mg/l	0.0257	0.0247	103.	74.3-123	4.03	20	WG743542
Trichloroethene	mg/l	0.0246	0.0247	98.0	77.7-118	0.630	20	WG743542
Trichlorofluoromethane	mg/l	0.0266	0.0253	106.	63.5-135	4.90	20	WG743542
Vinyl chloride	mg/l	0.0239	0.0234	96.0	65.9-128	2.06	20	WG743542
Xylenes, Total	mg/l	0.0760	0.0766	101.	78.7-121	0.770	20	WG743542
4-Bromofluorobenzene				103.0	71-126			WG743542
Dibromofluoromethane				105.0	78.3-121			WG743542

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Quality Assurance Report
Level II

L722204

September 29, 2014

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Toluene-d8				99.90	88.5-111			
1-Methylnaphthalene	mg/l	0.00202	0.00185	101.	73.2-141	8.44	20	WG744246
2-Chloronaphthalene	mg/l	0.00197	0.00181	99.0	74.2-135	8.68	20	WG744246
2-Methylnaphthalene	mg/l	0.00200	0.00185	100.	72.4-141	7.91	20	WG744246
Acenaphthene	mg/l	0.00189	0.00173	94.0	76.2-136	8.68	20	WG744246
Acenaphthylene	mg/l	0.00199	0.00182	99.0	71.3-139	8.63	20	WG744246
Anthracene	mg/l	0.00210	0.00193	105.	77.3-144	8.76	20	WG744246
Benzo(a)anthracene	mg/l	0.00193	0.00177	97.0	71.4-142	8.72	20	WG744246
Benzo(a)pyrene	mg/l	0.00193	0.00180	97.0	70.8-140	7.22	20	WG744246
Benzo(b)fluoranthene	mg/l	0.00183	0.00174	92.0	68-142	5.46	20	WG744246
Benzo(g,h,i)perylene	mg/l	0.00200	0.00185	100.	62.8-146	7.72	20	WG744246
Benzo(k)fluoranthene	mg/l	0.00198	0.00179	99.0	70.1-144	9.93	20	WG744246
Chrysene	mg/l	0.00206	0.00188	103.	73.6-143	9.19	20	WG744246
Dibenz(a,h)anthracene	mg/l	0.00204	0.00189	102.	56.1-147	7.93	20	WG744246
Fluoranthene	mg/l	0.00206	0.00187	103.	77.9-147	9.58	20	WG744246
Fluorene	mg/l	0.00194	0.00179	97.0	75.3-136	8.40	20	WG744246
Indeno(1,2,3-cd)pyrene	mg/l	0.00205	0.00189	102.	61.6-147	7.91	20	WG744246
Naphthalene	mg/l	0.00196	0.00180	98.0	72.2-137	8.48	20	WG744246
Phenanthrene	mg/l	0.00192	0.00175	96.0	76-133	8.87	20	WG744246
Pyrene	mg/l	0.00189	0.00175	94.0	73-139	7.56	20	WG744246
2-Fluorobiphenyl				92.40	57.7-153			WG744246
Nitrobenzene-d5				88.00	45.1-170			WG744246
p-Terphenyl-d14				89.60	53.2-156			WG744246
1,1,1,2-Tetrachloroethane	mg/l	0.0239	0.0245	95.0	74.2-124	2.47	20	WG744517
1,1,1-Trichloroethane	mg/l	0.0223	0.0237	89.0	73.2-123	6.01	20	WG744517
1,1,2,2-Tetrachloroethane	mg/l	0.0250	0.0251	100.	70.7-122	0.630	20	WG744517
1,1,2-Trichloroethane	mg/l	0.0257	0.0261	103.	77.7-118	1.67	20	WG744517
1,1,2-Trichlorotrifluoroethane	mg/l	0.0245	0.0265	98.0	67.2-143	7.96	20	WG744517
1,1-Dichloroethane	mg/l	0.0233	0.0242	93.0	70.7-126	3.93	20	WG744517
1,1-Dichloroethene	mg/l	0.0245	0.0259	98.0	67.8-129	5.67	20	WG744517
1,1-Dichloropropene	mg/l	0.0231	0.0242	92.0	73.1-125	4.48	20	WG744517
1,2,3-Trichlorobenzene	mg/l	0.0239	0.0233	96.0	64.9-135	2.65	20	WG744517
1,2,3-Trichloropropane	mg/l	0.0268	0.0251	107.	71.8-121	6.34	20	WG744517
1,2,3-Trimethylbenzene	mg/l	0.0240	0.0247	96.0	72.3-116	2.92	20	WG744517
1,2,4-Trichlorobenzene	mg/l	0.0243	0.0244	97.0	69.7-136	0.580	20	WG744517
1,2,4-Trimethylbenzene	mg/l	0.0236	0.0234	94.0	75-123	0.720	20	WG744517
1,2-Dibromo-3-Chloropropane	mg/l	0.0230	0.0235	92.0	65.4-128	1.98	20	WG744517
1,2-Dibromoethane	mg/l	0.0276	0.0262	110.	76.6-121	5.11	20	WG744517
1,2-Dichlorobenzene	mg/l	0.0247	0.0254	99.0	78.4-117	3.07	20	WG744517
1,2-Dichloroethane	mg/l	0.0248	0.0260	99.0	68.8-124	4.78	20	WG744517
1,2-Dichloropropane	mg/l	0.0245	0.0254	98.0	76.5-119	3.58	20	WG744517
1,3,5-Trimethylbenzene	mg/l	0.0243	0.0237	97.0	75.6-124	2.20	20	WG744517
1,3-Dichlorobenzene	mg/l	0.0237	0.0243	95.0	70.8-128	2.15	20	WG744517
1,3-Dichloropropane	mg/l	0.0253	0.0248	101.	77.4-117	2.26	20	WG744517
1,4-Dichlorobenzene	mg/l	0.0243	0.0250	97.0	78.8-115	3.02	20	WG744517
2,2-Dichloropropane	mg/l	0.0213	0.0225	85.0	62.4-133	5.36	20	WG744517
2-Butanone (MEK)	mg/l	0.120	0.122	96.0	55-149	1.69	20	WG744517
2-Chloroethyl vinyl ether	mg/l	0.129	0.126	103.	43.8-150	2.93	20	WG744517
2-Chlorotoluene	mg/l	0.0234	0.0226	94.0	74.7-122	3.24	20	WG744517
4-Chlorotoluene	mg/l	0.0245	0.0236	98.0	77.5-120	3.77	20	WG744517
4-Methyl-2-pentanone (MIBK)	mg/l	0.121	0.124	97.0	70.5-133	2.66	20	WG744517
Acetone	mg/l	0.131	0.127	104.	35.6-163	2.61	23.9	WG744517
Acrolein	mg/l	0.0886	0.0897	71.0	10-190	1.28	28.1	WG744517
Acrylonitrile	mg/l	0.127	0.130	102.	55.2-130	2.25	20	WG744517
Benzene	mg/l	0.0235	0.0243	94.0	74.8-121	2.99	20	WG744517
Bromobenzene	mg/l	0.0245	0.0235	98.0	77.5-116	4.27	20	WG744517
Bromodichloromethane	mg/l	0.0238	0.0244	95.0	75.1-116	2.62	20	WG744517

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Quality Assurance Report
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L722204

September 29, 2014

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Bromoform	mg/l	0.0245	0.0239	98.0	67.5-130	2.52	20	WG744517
Bromomethane	mg/l	0.0277	0.0324	111.	49.9-162	15.9	20	WG744517
Carbon tetrachloride	mg/l	0.0224	0.0239	89.0	70.2-123	6.66	20	WG744517
Chlorobenzene	mg/l	0.0251	0.0248	100.	78.1-119	1.52	20	WG744517
Chlorodibromomethane	mg/l	0.0248	0.0247	99.0	74-121	0.390	20	WG744517
Chloroethane	mg/l	0.0296	0.0311	118.	61.7-135	5.05	20	WG744517
Chloroform	mg/l	0.0235	0.0244	94.0	76-121	3.70	20	WG744517
Chloromethane	mg/l	0.0223	0.0238	89.0	61.5-129	6.57	20	WG744517
cis-1,2-Dichloroethene	mg/l	0.0232	0.0245	93.0	76-119	5.57	20	WG744517
cis-1,3-Dichloropropene	mg/l	0.0249	0.0252	99.0	78.2-120	1.44	20	WG744517
Di-isopropyl ether	mg/l	0.0237	0.0247	95.0	65.6-132	4.32	20	WG744517
Dibromomethane	mg/l	0.0254	0.0259	102.	79.5-118	2.16	20	WG744517
Dichlorodifluoromethane	mg/l	0.0240	0.0260	96.0	54.8-135	8.08	20	WG744517
Ethylbenzene	mg/l	0.0243	0.0245	97.0	78.8-122	0.900	20	WG744517
Hexachloro-1,3-butadiene	mg/l	0.0231	0.0232	92.0	64.7-129	0.530	20	WG744517
Isopropylbenzene	mg/l	0.0241	0.0243	96.0	78.6-132	0.960	20	WG744517
Methyl tert-butyl ether	mg/l	0.0232	0.0238	93.0	71.2-126	2.89	20	WG744517
Methylene Chloride	mg/l	0.0229	0.0242	92.0	70.3-120	5.43	20	WG744517
n-Butylbenzene	mg/l	0.0249	0.0253	100.	76.2-126	1.49	20	WG744517
n-Propylbenzene	mg/l	0.0244	0.0239	98.0	78.2-122	2.04	20	WG744517
Naphthalene	mg/l	0.0248	0.0249	99.0	68.4-128	0.470	20	WG744517
p-Isopropyltoluene	mg/l	0.0238	0.0238	95.0	74-131	0.0100	20	WG744517
sec-Butylbenzene	mg/l	0.0236	0.0236	94.0	74.4-127	0.170	20	WG744517
Styrene	mg/l	0.0237	0.0235	95.0	80.4-126	1.05	20	WG744517
tert-Butylbenzene	mg/l	0.0238	0.0246	95.0	75.3-126	2.98	20	WG744517
Tetrachloroethene	mg/l	0.0253	0.0254	101.	72.6-126	0.580	20	WG744517
Toluene	mg/l	0.0245	0.0253	98.0	79.7-116	3.27	20	WG744517
trans-1,2-Dichloroethene	mg/l	0.0219	0.0236	88.0	72.6-121	7.11	20	WG744517
trans-1,3-Dichloropropene	mg/l	0.0251	0.0241	100.	74.3-123	3.88	20	WG744517
Trichloroethene	mg/l	0.0237	0.0248	95.0	77.7-118	4.69	20	WG744517
Trichlorofluoromethane	mg/l	0.0248	0.0268	99.0	63.5-135	7.89	20	WG744517
Vinyl chloride	mg/l	0.0243	0.0258	97.0	65.9-128	5.76	20	WG744517
Xylenes, Total	mg/l	0.0727	0.0733	97.0	78.7-121	0.750	20	WG744517
4-Bromofluorobenzene				105.0	71-126			WG744517
Dibromofluoromethane				100.0	78.3-121			WG744517
Toluene-d8				102.0	88.5-111			WG744517

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1-Methylnaphthalene	mg/l	0.142	0.135	.001	350.*	65-145	L722204-06	WG743763
2-Chloronaphthalene	mg/l	0.00211	0.0	.001	110.	63.2-140	L722204-06	WG743763
2-Methylnaphthalene	mg/l	0.0134	0.00929	.001	210.*	43.8-160	L722204-06	WG743763
Acenaphthene	mg/l	0.0632	0.0624	.001	42.0*	53.5-156	L722204-06	WG743763
Acenaphthylene	mg/l	0.0593	0.0567	.001	130.	64.3-149	L722204-06	WG743763
Anthracene	mg/l	0.0222	0.0202	.001	100.	77.5-149	L722204-06	WG743763
Benzo(a)anthracene	mg/l	0.00524	0.00319	.001	100.	68.8-155	L722204-06	WG743763
Benzo(a)pyrene	mg/l	0.00426	0.00257	.001	84.0	57.7-142	L722204-06	WG743763
Benzo(b)fluoranthene	mg/l	0.00332	0.00185	.001	74.0	56.1-141	L722204-06	WG743763
Benzo(g,h,i)perylene	mg/l	0.00276	0.00124	.001	76.0	48.1-139	L722204-06	WG743763
Benzo(k)fluoranthene	mg/l	0.00248	0.000695	.001	89.0	50.8-142	L722204-06	WG743763
Chrysene	mg/l	0.00483	0.00292	.001	95.0	62.5-140	L722204-06	WG743763
Dibenz(a,h)anthracene	mg/l	0.00165	0.0000856	.001	78.0	41.2-145	L722204-06	WG743763
Fluoranthene	mg/l	0.0170	0.0149	.001	100.	76.5-153	L722204-06	WG743763
Fluorene	mg/l	0.0530	0.0510	.001	100.	55.6-154	L722204-06	WG743763
Indeno(1,2,3-cd)pyrene	mg/l	0.00243	0.000945	.001	74.0	44.3-146	L722204-06	WG743763
Naphthalene	mg/l	0.115	0.0728	.001	2100*	58.9-141	L722204-06	WG743763
Phenanthrene	mg/l	0.0989	0.0946	.001	220.*	70-141	L722204-06	WG743763
Pyrene	mg/l	0.0215	0.0196	.001	97.0	70.4-146	L722204-06	WG743763

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Quality Assurance Report
Level II

L722204

September 29, 2014

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
2-Fluorobiphenyl					94.00	57.7-153		
Nitrobenzene-d5					99.30	45.1-170		
p-Terphenyl-d14					79.10	53.2-156		
1,1,1,2-Tetrachloroethane	mg/l	0.0205	0.0	.025	82.0	64-128	L722226-02	WG743543
1,1,1-Trichloroethane	mg/l	0.0230	0.0	.025	92.0	58.7-134	L722226-02	WG743543
1,1,2,2-Tetrachloroethane	mg/l	0.0240	0.0	.025	96.0	56-132	L722226-02	WG743543
1,1,2-Trichloroethane	mg/l	0.0236	0.0	.025	94.0	66.3-125	L722226-02	WG743543
1,1,2-Trichlorotrifluoroethane	mg/l	0.0223	0.0	.025	89.0	54.8-154	L722226-02	WG743543
1,1-Dichloroethane	mg/l	0.0198	0.0	.025	79.0	58.5-132	L722226-02	WG743543
1,1-Dichloroethene	mg/l	0.0199	0.0	.025	80.0	51.1-140	L722226-02	WG743543
1,1-Dichloropropene	mg/l	0.0208	0.0	.025	83.0	57.3-136	L722226-02	WG743543
1,2,3-Trichlorobenzene	mg/l	0.0228	0.0	.025	91.0	59.1-138	L722226-02	WG743543
1,2,3-Trichloropropane	mg/l	0.0260	0.0	.025	100.	61.4-128	L722226-02	WG743543
1,2,3-Trimethylbenzene	mg/l	0.0205	0.0	.025	82.0	61.3-122	L722226-02	WG743543
1,2,4-Trichlorobenzene	mg/l	0.0217	0.0	.025	87.0	63.6-143	L722226-02	WG743543
1,2,4-Trimethylbenzene	mg/l	0.0212	0.0	.025	85.0	57.4-137	L722226-02	WG743543
1,2-Dibromo-3-Chloropropane	mg/l	0.0224	0.0	.025	90.0	57.3-136	L722226-02	WG743543
1,2-Dibromoethane	mg/l	0.0236	0.0	.025	94.0	67.1-125	L722226-02	WG743543
1,2-Dichlorobenzene	mg/l	0.0215	0.0	.025	86.0	68.2-123	L722226-02	WG743543
1,2-Dichloroethane	mg/l	0.0227	0.0	.025	91.0	60-126	L722226-02	WG743543
1,2-Dichloropropane	mg/l	0.0200	0.0	.025	80.0	64.2-123	L722226-02	WG743543
1,3,5-Trimethylbenzene	mg/l	0.0216	0.0	.025	86.0	63.6-132	L722226-02	WG743543
1,3-Dichlorobenzene	mg/l	0.0224	0.0	.025	90.0	63.1-131	L722226-02	WG743543
1,3-Dichloropropane	mg/l	0.0220	0.0	.025	88.0	67.9-121	L722226-02	WG743543
1,4-Dichlorobenzene	mg/l	0.0208	0.0	.025	83.0	68.6-123	L722226-02	WG743543
2,2-Dichloropropane	mg/l	0.0210	0.0	.025	84.0	50.5-144	L722226-02	WG743543
2-Butanone (MEK)	mg/l	0.122	0.0	.125	98.0	22.4-138	L722226-02	WG743543
2-Chloroethyl vinyl ether	mg/l	0.00515	0.0	.125	4.10*	10-155	L722226-02	WG743543
2-Chlorotoluene	mg/l	0.0211	0.0	.025	84.0	63.6-128	L722226-02	WG743543
4-Chlorotoluene	mg/l	0.0217	0.0	.025	87.0	65.7-127	L722226-02	WG743543
4-Methyl-2-pentanone (MIBK)	mg/l	0.110	0.0	.125	88.0	60.8-140	L722226-02	WG743543
Acetone	mg/l	0.126	0.00954	.125	93.0	10-130	L722226-02	WG743543
Acrolein	mg/l	0.0996	0.0	.125	80.0	10-200	L722226-02	WG743543
Acrylonitrile	mg/l	0.116	0.0	.125	93.0	49.4-133	L722226-02	WG743543
Benzene	mg/l	0.0204	0.0	.025	82.0	54.3-133	L722226-02	WG743543
Bromobenzene	mg/l	0.0211	0.0	.025	84.0	63.9-124	L722226-02	WG743543
Bromodichloromethane	mg/l	0.0212	0.0	.025	85.0	63.9-121	L722226-02	WG743543
Bromoform	mg/l	0.0221	0.0	.025	89.0	59.5-134	L722226-02	WG743543
Bromomethane	mg/l	0.0217	0.0	.025	87.0	41.7-155	L722226-02	WG743543
Carbon tetrachloride	mg/l	0.0219	0.0	.025	88.0	55.7-134	L722226-02	WG743543
Chlorobenzene	mg/l	0.0212	0.0	.025	85.0	67-125	L722226-02	WG743543
Chlorodibromomethane	mg/l	0.0227	0.0	.025	91.0	64.3-125	L722226-02	WG743543
Chloroethane	mg/l	0.0187	0.0	.025	75.0	51.5-136	L722226-02	WG743543
Chloroform	mg/l	0.0221	0.0	.025	88.0	63-129	L722226-02	WG743543
Chloromethane	mg/l	0.0168	0.0	.025	67.0	42.4-135	L722226-02	WG743543
cis-1,2-Dichloroethene	mg/l	0.0215	0.0	.025	86.0	59.2-129	L722226-02	WG743543
cis-1,3-Dichloropropene	mg/l	0.0206	0.0	.025	82.0	66.4-125	L722226-02	WG743543
Di-isopropyl ether	mg/l	0.0208	0.0	.025	83.0	56.9-136	L722226-02	WG743543
Dibromomethane	mg/l	0.0224	0.0	.025	90.0	68.2-124	L722226-02	WG743543
Dichlorodifluoromethane	mg/l	0.0215	0.0	.025	86.0	40.6-144	L722226-02	WG743543
Ethylbenzene	mg/l	0.0212	0.0	.025	85.0	61.4-133	L722226-02	WG743543
Hexachloro-1,3-butadiene	mg/l	0.0198	0.0	.025	79.0	55.1-136	L722226-02	WG743543
Isopropylbenzene	mg/l	0.0214	0.0	.025	86.0	66.8-141	L722226-02	WG743543
Methyl tert-butyl ether	mg/l	0.0210	0.0	.025	84.0	57.7-134	L722226-02	WG743543
Methylene Chloride	mg/l	0.0209	0.0	.025	84.0	58.1-122	L722226-02	WG743543
n-Butylbenzene	mg/l	0.0205	0.0	.025	82.0	62.7-140	L722226-02	WG743543
n-Propylbenzene	mg/l	0.0214	0.0	.025	86.0	65.9-131	L722226-02	WG743543
Naphthalene	mg/l	0.0244	0.0	.025	98.0	58-135	L722226-02	WG743543
p-Isopropyltoluene	mg/l	0.0212	0.0	.025	85.0	63.2-139	L722226-02	WG743543

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
sec-Butylbenzene	mg/l	0.0219	0.0	.025	88.0	62.2-136	L722226-02	WG743543
Styrene	mg/l	0.0204	0.0	.025	82.0	66.8-133	L722226-02	WG743543
tert-Butylbenzene	mg/l	0.0216	0.0	.025	87.0	63.3-134	L722226-02	WG743543
Tetrachloroethene	mg/l	0.0210	0.0	.025	84.0	53-139	L722226-02	WG743543
Toluene	mg/l	0.0205	0.0	.025	82.0	61.4-130	L722226-02	WG743543
trans-1,2-Dichloroethene	mg/l	0.0208	0.0	.025	83.0	56.5-129	L722226-02	WG743543
trans-1,3-Dichloropropene	mg/l	0.0220	0.0	.025	88.0	64.1-128	L722226-02	WG743543
Trichloroethene	mg/l	0.0213	0.0	.025	85.0	44.1-149	L722226-02	WG743543
Trichlorofluoromethane	mg/l	0.0225	0.0	.025	90.0	49.6-145	L722226-02	WG743543
Vinyl chloride	mg/l	0.0191	0.0	.025	76.0	47.8-137	L722226-02	WG743543
Xylenes, Total	mg/l	0.0607	0.0	.075	81.0	63.3-131	L722226-02	WG743543
4-Bromofluorobenzene					102.0	71-126		WG743543
Dibromofluoromethane					107.0	78.3-121		WG743543
Toluene-d8					103.0	88.5-111		WG743543
1,1,1,2-Tetrachloroethane	mg/l	0.0290	0.0	.025	120.	64-128	L722103-01	WG743542
1,1,1-Trichloroethane	mg/l	0.0287	0.0	.025	120.	58.7-134	L722103-01	WG743542
1,1,2,2-Tetrachloroethane	mg/l	0.0278	0.0	.025	110.	56-132	L722103-01	WG743542
1,1,2-Trichloroethane	mg/l	0.0285	0.0	.025	110.	66.3-125	L722103-01	WG743542
1,1,2-Trichlorotrifluoroethane	mg/l	0.0269	0.0	.025	110.	54.8-154	L722103-01	WG743542
1,1-Dichloroethane	mg/l	0.0257	0.0	.025	100.	58.5-132	L722103-01	WG743542
1,1-Dichloroethene	mg/l	0.0256	0.0	.025	100.	51.1-140	L722103-01	WG743542
1,1-Dichloropropene	mg/l	0.0267	0.0	.025	110.	57.3-136	L722103-01	WG743542
1,2,3-Trichlorobenzene	mg/l	0.0289	0.0	.025	120.	59.1-138	L722103-01	WG743542
1,2,3-Trichloropropane	mg/l	0.0292	0.0	.025	120.	61.4-128	L722103-01	WG743542
1,2,3-Trimethylbenzene	mg/l	0.0262	0.0	.025	100.	61.3-122	L722103-01	WG743542
1,2,4-Trichlorobenzene	mg/l	0.0275	0.0	.025	110.	63.6-143	L722103-01	WG743542
1,2,4-Trimethylbenzene	mg/l	0.0282	0.0	.025	110.	57.4-137	L722103-01	WG743542
1,2-Dibromo-3-Chloropropane	mg/l	0.0279	0.0	.025	110.	57.3-136	L722103-01	WG743542
1,2-Dibromoethane	mg/l	0.0283	0.0	.025	110.	67.1-125	L722103-01	WG743542
1,2-Dichlorobenzene	mg/l	0.0265	0.0	.025	110.	68.2-123	L722103-01	WG743542
1,2-Dichloroethane	mg/l	0.0272	0.0	.025	110.	60-126	L722103-01	WG743542
1,2-Dichloropropane	mg/l	0.0250	0.0	.025	100.	64.2-123	L722103-01	WG743542
1,3,5-Trimethylbenzene	mg/l	0.0284	0.0	.025	110.	63.6-132	L722103-01	WG743542
1,3-Dichlorobenzene	mg/l	0.0303	0.0	.025	120.	63.1-131	L722103-01	WG743542
1,3-Dichloropropane	mg/l	0.0266	0.0	.025	110.	67.9-121	L722103-01	WG743542
1,4-Dichlorobenzene	mg/l	0.0271	0.0	.025	110.	68.6-123	L722103-01	WG743542
2,2-Dichloropropane	mg/l	0.0301	0.0	.025	120.	50.5-144	L722103-01	WG743542
2-Butanone (MEK)	mg/l	0.131	0.000777	.125	100.	22.4-138	L722103-01	WG743542
2-Chloroethyl vinyl ether	mg/l	0.103	0.0	.125	82.0	10-155	L722103-01	WG743542
2-Chlorotoluene	mg/l	0.0286	0.0	.025	110.	63.6-128	L722103-01	WG743542
4-Chlorotoluene	mg/l	0.0278	0.0	.025	110.	65.7-127	L722103-01	WG743542
4-Methyl-2-pentanone (MIBK)	mg/l	0.131	0.0	.125	100.	60.8-140	L722103-01	WG743542
Acetone	mg/l	0.146	0.00730	.125	110.	10-130	L722103-01	WG743542
Acrolein	mg/l	0.157	0.0	.125	120.	10-200	L722103-01	WG743542
Acrylonitrile	mg/l	0.140	0.0	.125	110.	49.4-133	L722103-01	WG743542
Benzene	mg/l	0.0248	0.0	.025	99.0	54.3-133	L722103-01	WG743542
Bromobenzene	mg/l	0.0262	0.0	.025	100.	63.9-124	L722103-01	WG743542
Bromodichloromethane	mg/l	0.0259	0.0	.025	100.	63.9-121	L722103-01	WG743542
Bromoform	mg/l	0.0303	0.0	.025	120.	59.5-134	L722103-01	WG743542
Bromomethane	mg/l	0.0233	0.0	.025	93.0	41.7-155	L722103-01	WG743542
Carbon tetrachloride	mg/l	0.0289	0.0	.025	120.	55.7-134	L722103-01	WG743542
Chlorobenzene	mg/l	0.0260	0.0	.025	100.	67-125	L722103-01	WG743542
Chlorodibromomethane	mg/l	0.0301	0.0	.025	120.	64.3-125	L722103-01	WG743542
Chloroethane	mg/l	0.0232	0.0	.025	93.0	51.5-136	L722103-01	WG743542
Chloroform	mg/l	0.0259	0.0	.025	100.	63-129	L722103-01	WG743542
Chloromethane	mg/l	0.0250	0.0	.025	100.	42.4-135	L722103-01	WG743542
cis-1,2-Dichloroethene	mg/l	0.0259	0.0	.025	100.	59.2-129	L722103-01	WG743542

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
cis-1,3-Dichloropropene	mg/l	0.0264	0.0	.025	110.	66.4-125	L722103-01	WG743542
Di-isopropyl ether	mg/l	0.0270	0.0	.025	110.	56.9-136	L722103-01	WG743542
Dibromomethane	mg/l	0.0267	0.0	.025	110.	68.2-124	L722103-01	WG743542
Dichlorodifluoromethane	mg/l	0.0271	0.0	.025	110.	40.6-144	L722103-01	WG743542
Ethylbenzene	mg/l	0.0279	0.0	.025	110.	61.4-133	L722103-01	WG743542
Hexachloro-1,3-butadiene	mg/l	0.0294	0.0	.025	120.	55.1-136	L722103-01	WG743542
Isopropylbenzene	mg/l	0.0290	0.0	.025	120.	66.8-141	L722103-01	WG743542
Methyl tert-butyl ether	mg/l	0.0317	0.00544	.025	100.	57.7-134	L722103-01	WG743542
Methylene Chloride	mg/l	0.0245	0.0	.025	98.0	58.1-122	L722103-01	WG743542
n-Butylbenzene	mg/l	0.0281	0.0	.025	110.	62.7-140	L722103-01	WG743542
n-Propylbenzene	mg/l	0.0279	0.0	.025	110.	65.9-131	L722103-01	WG743542
Naphthalene	mg/l	0.0279	0.0	.025	110.	58-135	L722103-01	WG743542
p-Isopropyltoluene	mg/l	0.0311	0.0	.025	120.	63.2-139	L722103-01	WG743542
sec-Butylbenzene	mg/l	0.0299	0.0	.025	120.	62.2-136	L722103-01	WG743542
Styrene	mg/l	0.0284	0.0	.025	110.	66.8-133	L722103-01	WG743542
tert-Butylbenzene	mg/l	0.0301	0.0	.025	120.	63.3-134	L722103-01	WG743542
Tetrachloroethene	mg/l	0.0284	0.0	.025	110.	53-139	L722103-01	WG743542
Toluene	mg/l	0.0255	0.0	.025	100.	61.4-130	L722103-01	WG743542
trans-1,2-Dichloroethene	mg/l	0.0254	0.0	.025	100.	56.5-129	L722103-01	WG743542
trans-1,3-Dichloropropene	mg/l	0.0272	0.0	.025	110.	64.1-128	L722103-01	WG743542
Trichloroethene	mg/l	0.0263	0.0	.025	100.	44.1-149	L722103-01	WG743542
Trichlorofluoromethane	mg/l	0.0290	0.0	.025	120.	49.6-145	L722103-01	WG743542
Vinyl chloride	mg/l	0.0254	0.0	.025	100.	47.8-137	L722103-01	WG743542
Xylenes, Total	mg/l	0.0818	0.0	.075	110.	63.3-131	L722103-01	WG743542
4-Bromofluorobenzene					102.0	71-126		WG743542
Dibromofluoromethane					103.0	78.3-121		WG743542
Toluene-d8					100.0	88.5-111		WG743542
1,1,1,2-Tetrachloroethane	mg/l	0.121	0.0	.025	97.0	64-128	L722204-06	WG744517
1,1,1-Trichloroethane	mg/l	0.112	0.0	.025	90.0	58.7-134	L722204-06	WG744517
1,1,2,2-Tetrachloroethane	mg/l	0.115	0.0	.025	92.0	56-132	L722204-06	WG744517
1,1,2-Trichloroethane	mg/l	0.114	0.0	.025	91.0	66.3-125	L722204-06	WG744517
1,1,2-Trichlorotrifluoroethane	mg/l	0.127	0.0	.025	100.	54.8-154	L722204-06	WG744517
1,1-Dichloroethane	mg/l	0.112	0.0	.025	89.0	58.5-132	L722204-06	WG744517
1,1-Dichloroethene	mg/l	0.121	0.0	.025	96.0	51.1-140	L722204-06	WG744517
1,1-Dichloropropene	mg/l	0.107	0.0	.025	86.0	57.3-136	L722204-06	WG744517
1,2,3-Trichlorobenzene	mg/l	0.114	0.0	.025	91.0	59.1-138	L722204-06	WG744517
1,2,3-Trichloropropane	mg/l	0.119	0.0	.025	95.0	61.4-128	L722204-06	WG744517
1,2,3-Trimethylbenzene	mg/l	0.121	0.00466	.025	93.0	61.3-122	L722204-06	WG744517
1,2,4-Trichlorobenzene	mg/l	0.119	0.0	.025	95.0	63.6-143	L722204-06	WG744517
1,2,4-Trimethylbenzene	mg/l	0.133	0.0147	.025	94.0	57.4-137	L722204-06	WG744517
1,2-Dibromo-3-Chloropropane	mg/l	0.103	0.0	.025	82.0	57.3-136	L722204-06	WG744517
1,2-Dibromoethane	mg/l	0.114	0.0	.025	91.0	67.1-125	L722204-06	WG744517
1,2-Dichlorobenzene	mg/l	0.117	0.0	.025	94.0	68.2-123	L722204-06	WG744517
1,2-Dichloroethane	mg/l	0.115	0.0	.025	92.0	60-126	L722204-06	WG744517
1,2-Dichloropropane	mg/l	0.114	0.0	.025	91.0	64.2-123	L722204-06	WG744517
1,3,5-Trimethylbenzene	mg/l	0.124	0.00384	.025	96.0	63.6-132	L722204-06	WG744517
1,3-Dichlorobenzene	mg/l	0.117	0.0	.025	93.0	63.1-131	L722204-06	WG744517
1,3-Dichloropropane	mg/l	0.109	0.0	.025	87.0	67.9-121	L722204-06	WG744517
1,4-Dichlorobenzene	mg/l	0.119	0.0	.025	95.0	68.6-123	L722204-06	WG744517
2,2-Dichloropropane	mg/l	0.110	0.0	.025	88.0	50.5-144	L722204-06	WG744517
2-Butanone (MEK)	mg/l	0.481	0.0	.125	77.0	22.4-138	L722204-06	WG744517
2-Chloroethyl vinyl ether	mg/l	0.453	0.0	.125	72.0	10-155	L722204-06	WG744517
2-Chlorotoluene	mg/l	0.111	0.0	.025	89.0	63.6-128	L722204-06	WG744517
4-Chlorotoluene	mg/l	0.112	0.0	.025	90.0	65.7-127	L722204-06	WG744517
4-Methyl-2-pentanone (MIBK)	mg/l	0.523	0.0	.125	84.0	60.8-140	L722204-06	WG744517
Acetone	mg/l	0.504	0.0157	.125	78.0	10-130	L722204-06	WG744517
Acrolein	mg/l	0.399	0.0	.125	64.0	10-200	L722204-06	WG744517

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Quality Assurance Report
Level II

L722204

September 29, 2014

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
		Matrix Spike						
Acrylonitrile	mg/l	0.531	0.0	.125	85.0	49.4-133	L722204-06	WG744517
Benzene	mg/l	0.110	0.000914	.025	88.0	54.3-133	L722204-06	WG744517
Bromobenzene	mg/l	0.113	0.0	.025	90.0	63.9-124	L722204-06	WG744517
Bromodichloromethane	mg/l	0.111	0.0	.025	88.0	63.9-121	L722204-06	WG744517
Bromoform	mg/l	0.109	0.0	.025	87.0	59.5-134	L722204-06	WG744517
Bromomethane	mg/l	0.140	0.0	.025	110.	41.7-155	L722204-06	WG744517
Carbon tetrachloride	mg/l	0.110	0.0	.025	88.0	55.7-134	L722204-06	WG744517
Chlorobenzene	mg/l	0.115	0.0	.025	92.0	67-125	L722204-06	WG744517
Chlorodibromomethane	mg/l	0.111	0.0	.025	89.0	64.3-125	L722204-06	WG744517
Chloroethane	mg/l	0.141	0.0	.025	110.	51.5-136	L722204-06	WG744517
Chloroform	mg/l	0.112	0.0	.025	89.0	63-129	L722204-06	WG744517
Chloromethane	mg/l	0.100	0.0	.025	80.0	42.4-135	L722204-06	WG744517
cis-1,2-Dichloroethene	mg/l	0.110	0.0	.025	88.0	59.2-129	L722204-06	WG744517
cis-1,3-Dichloropropene	mg/l	0.108	0.0	.025	87.0	66.4-125	L722204-06	WG744517
Di-isopropyl ether	mg/l	0.112	0.0	.025	90.0	56.9-136	L722204-06	WG744517
Dibromomethane	mg/l	0.114	0.0	.025	92.0	68.2-124	L722204-06	WG744517
Dichlorodifluoromethane	mg/l	0.117	0.0	.025	93.0	40.6-144	L722204-06	WG744517
Ethylbenzene	mg/l	0.133	0.0148	.025	95.0	61.4-133	L722204-06	WG744517
Hexachloro-1,3-butadiene	mg/l	0.114	0.0	.025	91.0	55.1-136	L722204-06	WG744517
Isopropylbenzene	mg/l	0.122	0.00310	.025	96.0	66.8-141	L722204-06	WG744517
Methyl tert-butyl ether	mg/l	0.106	0.0	.025	85.0	57.7-134	L722204-06	WG744517
Methylene Chloride	mg/l	0.108	0.000790	.025	85.0	58.1-122	L722204-06	WG744517
n-Butylbenzene	mg/l	0.124	0.000516	.025	99.0	62.7-140	L722204-06	WG744517
n-Propylbenzene	mg/l	0.120	0.00140	.025	95.0	65.9-131	L722204-06	WG744517
Naphthalene	mg/l	0.321	0.222	.025	79.0	58-135	L722204-06	WG744517
p-Isopropyltoluene	mg/l	0.122	0.00189	.025	96.0	63.2-139	L722204-06	WG744517
sec-Butylbenzene	mg/l	0.118	0.0	.025	94.0	62.2-136	L722204-06	WG744517
Styrene	mg/l	0.111	0.000632	.025	88.0	66.8-133	L722204-06	WG744517
tert-Butylbenzene	mg/l	0.122	0.0	.025	97.0	63.3-134	L722204-06	WG744517
Tetrachloroethene	mg/l	0.116	0.0	.025	93.0	53-139	L722204-06	WG744517
Toluene	mg/l	0.117	0.00116	.025	92.0	61.4-130	L722204-06	WG744517
trans-1,2-Dichloroethene	mg/l	0.104	0.0	.025	83.0	56.5-129	L722204-06	WG744517
trans-1,3-Dichloropropene	mg/l	0.108	0.0	.025	87.0	64.1-128	L722204-06	WG744517
Trichloroethene	mg/l	0.114	0.0	.025	91.0	44.1-149	L722204-06	WG744517
Trichlorofluoromethane	mg/l	0.137	0.0	.025	110.	49.6-145	L722204-06	WG744517
Vinyl chloride	mg/l	0.115	0.0	.025	92.0	47.8-137	L722204-06	WG744517
Xylenes, Total	mg/l	0.360	0.0125	.075	93.0	63.3-131	L722204-06	WG744517
4-Bromofluorobenzene					102.0	71-126		WG744517
Dibromofluoromethane					100.0	78.3-121		WG744517
Toluene-d8					100.0	88.5-111		WG744517

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
		Matrix Spike Duplicate							
1-Methylnaphthalene	mg/l	0.133	0.142	0*	65-145	6.87	20	L722204-06	WG743763
2-Chloronaphthalene	mg/l	0.00212	0.00211	106.	63.2-140	0.320	20	L722204-06	WG743763
2-Methylnaphthalene	mg/l	0.0110	0.0134	84.0	43.8-160	20.1*	20	L722204-06	WG743763
Acenaphthene	mg/l	0.0619	0.0632	0*	53.5-156	2.05	20	L722204-06	WG743763
Acenaphthylene	mg/l	0.0562	0.0593	0*	64.3-149	5.24	20	L722204-06	WG743763
Anthracene	mg/l	0.0218	0.0222	78.3	77.5-149	2.05	20	L722204-06	WG743763
Benzo(a)anthracene	mg/l	0.00491	0.00524	86.0	68.8-155	6.58	20	L722204-06	WG743763
Benzo(a)pyrene	mg/l	0.00388	0.00426	65.4	57.7-142	9.30	20	L722204-06	WG743763
Benzo(b)fluoranthene	mg/l	0.00309	0.00332	62.0	56.1-141	7.22	25.6	L722204-06	WG743763
Benzo(g,h,i)perylene	mg/l	0.00260	0.00276	67.9	48.1-139	5.81	29.5	L722204-06	WG743763
Benzo(k)fluoranthene	mg/l	0.00240	0.00248	85.5	50.8-142	3.05	20	L722204-06	WG743763
Chrysene	mg/l	0.00447	0.00483	77.5	62.5-140	7.58	20	L722204-06	WG743763
Dibenz(a,h)anthracene	mg/l	0.00166	0.00165	78.9	41.2-145	1.05	32.5	L722204-06	WG743763
Fluoranthene	mg/l	0.0162	0.0170	63.9*	76.5-153	4.66	20	L722204-06	WG743763
Fluorene	mg/l	0.0518	0.0530	36.5*	55.6-154	2.41	20	L722204-06	WG743763

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Quality Assurance Report
Level II

L722204

September 29, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Indeno(1,2,3-cd)pyrene	mg/l	0.00233	0.00243	69.0	44.3-146	4.58	31.4	L722204-06	WG743763
Naphthalene	mg/l	0.0740	0.115	62.9	58.9-141	42.9*	20	L722204-06	WG743763
Phenanthrene	mg/l	0.0931	0.0989	0*	70-141	6.02	20	L722204-06	WG743763
Pyrene	mg/l	0.0203	0.0215	35.0*	70.4-146	5.90	20	L722204-06	WG743763
2-Fluorobiphenyl				95.50	57.7-153				WG743763
Nitrobenzene-d5				97.00	45.1-170				WG743763
p-Terphenyl-d14				80.50	53.2-156				WG743763
1,1,1,2-Tetrachloroethane	mg/l	0.0224	0.0205	89.5	64-128	8.60	20	L722226-02	WG743543
1,1,1-Trichloroethane	mg/l	0.0256	0.0230	102.	58.7-134	10.7	20	L722226-02	WG743543
1,1,2,2-Tetrachloroethane	mg/l	0.0271	0.0240	108.	56-132	12.2	22.2	L722226-02	WG743543
1,1,2-Trichloroethane	mg/l	0.0258	0.0236	103.	66.3-125	8.99	20	L722226-02	WG743543
1,1,2-Trichlorotrifluoroethane	mg/l	0.0246	0.0223	98.5	54.8-154	9.98	22.5	L722226-02	WG743543
1,1-Dichloroethane	mg/l	0.0220	0.0198	88.1	58.5-132	10.5	20	L722226-02	WG743543
1,1-Dichloroethene	mg/l	0.0221	0.0199	88.4	51.1-140	10.7	20.2	L722226-02	WG743543
1,1-Dichloropropene	mg/l	0.0239	0.0208	95.5	57.3-136	13.7	20	L722226-02	WG743543
1,2,3-Trichlorobenzene	mg/l	0.0249	0.0228	99.4	59.1-138	8.63	23.7	L722226-02	WG743543
1,2,3-Trichloropropane	mg/l	0.0299	0.0260	120.	61.4-128	14.0	22.4	L722226-02	WG743543
1,2,3-Trimethylbenzene	mg/l	0.0223	0.0205	89.4	61.3-122	8.73	20	L722226-02	WG743543
1,2,4-Trichlorobenzene	mg/l	0.0240	0.0217	95.9	63.6-143	9.80	21.9	L722226-02	WG743543
1,2,4-Trimethylbenzene	mg/l	0.0232	0.0212	92.9	57.4-137	9.15	20	L722226-02	WG743543
1,2-Dibromo-3-Chloropropane	mg/l	0.0240	0.0224	96.1	57.3-136	6.97	27	L722226-02	WG743543
1,2-Dibromoethane	mg/l	0.0268	0.0236	107.	67.1-125	12.6	20	L722226-02	WG743543
1,2-Dichlorobenzene	mg/l	0.0238	0.0215	95.1	68.2-123	10.3	20	L722226-02	WG743543
1,2-Dichloroethane	mg/l	0.0256	0.0227	102.	60-126	11.8	20	L722226-02	WG743543
1,2-Dichloropropane	mg/l	0.0214	0.0200	85.5	64.2-123	6.59	20	L722226-02	WG743543
1,3,5-Trimethylbenzene	mg/l	0.0236	0.0216	94.4	63.6-132	8.89	20.5	L722226-02	WG743543
1,3-Dichlorobenzene	mg/l	0.0247	0.0224	98.6	63.1-131	9.75	20	L722226-02	WG743543
1,3-Dichloropropane	mg/l	0.0245	0.0220	97.9	67.9-121	10.8	20	L722226-02	WG743543
1,4-Dichlorobenzene	mg/l	0.0227	0.0208	90.6	68.6-123	8.52	20	L722226-02	WG743543
2,2-Dichloropropane	mg/l	0.0233	0.0210	93.1	50.5-144	10.5	21.9	L722226-02	WG743543
2-Butanone (MEK)	mg/l	0.134	0.122	107.	22.4-138	8.90	27	L722226-02	WG743543
2-Chloroethyl vinyl ether	mg/l	0.00154	0.00515	1.23*	10-155	108.*	20	L722226-02	WG743543
2-Chlorotoluene	mg/l	0.0230	0.0211	92.0	63.6-128	8.81	20	L722226-02	WG743543
4-Chlorotoluene	mg/l	0.0240	0.0217	95.9	65.7-127	9.93	20	L722226-02	WG743543
4-Methyl-2-pentanone (MIBK)	mg/l	0.123	0.110	98.4	60.8-140	11.2	25.1	L722226-02	WG743543
Acetone	mg/l	0.142	0.126	106.	10-130	12.0	27.9	L722226-02	WG743543
Acrolein	mg/l	0.114	0.0996	91.2	10-200	13.5	27.7	L722226-02	WG743543
Acrylonitrile	mg/l	0.132	0.116	105.	49.4-133	12.5	25.3	L722226-02	WG743543
Benzene	mg/l	0.0229	0.0204	91.7	54.3-133	11.7	20	L722226-02	WG743543
Bromobenzene	mg/l	0.0231	0.0211	92.6	63.9-124	9.26	20	L722226-02	WG743543
Bromodichloromethane	mg/l	0.0235	0.0212	93.8	63.9-121	10.2	20	L722226-02	WG743543
Bromoform	mg/l	0.0248	0.0221	99.1	59.5-134	11.2	20.5	L722226-02	WG743543
Bromomethane	mg/l	0.0243	0.0217	97.1	41.7-155	11.0	21.9	L722226-02	WG743543
Carbon tetrachloride	mg/l	0.0245	0.0219	98.0	55.7-134	11.1	20	L722226-02	WG743543
Chlorobenzene	mg/l	0.0235	0.0212	93.8	67-125	9.96	20	L722226-02	WG743543
Chlorodibromomethane	mg/l	0.0254	0.0227	102.	64.3-125	11.1	20.8	L722226-02	WG743543
Chloroethane	mg/l	0.0212	0.0187	84.9	51.5-136	12.4	40	L722226-02	WG743543
Chloroform	mg/l	0.0245	0.0221	97.8	63-129	10.2	20	L722226-02	WG743543
Chloromethane	mg/l	0.0187	0.0168	74.8	42.4-135	10.9	20	L722226-02	WG743543
cis-1,2-Dichloroethene	mg/l	0.0249	0.0215	99.7	59.2-129	14.5	20	L722226-02	WG743543
cis-1,3-Dichloropropene	mg/l	0.0226	0.0206	90.4	66.4-125	9.49	20	L722226-02	WG743543
Di-isopropyl ether	mg/l	0.0234	0.0208	93.8	56.9-136	11.9	20	L722226-02	WG743543
Dibromomethane	mg/l	0.0248	0.0224	99.2	68.2-124	10.1	20	L722226-02	WG743543
Dichlorodifluoromethane	mg/l	0.0243	0.0215	97.1	40.6-144	12.1	20.2	L722226-02	WG743543
Ethylbenzene	mg/l	0.0234	0.0212	93.5	61.4-133	9.59	20	L722226-02	WG743543
Hexachloro-1,3-butadiene	mg/l	0.0224	0.0198	89.5	55.1-136	12.2	23.6	L722226-02	WG743543
Isopropylbenzene	mg/l	0.0234	0.0214	93.5	66.8-141	8.78	20	L722226-02	WG743543

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September 29, 2014

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Methyl tert-butyl ether	mg/l	0.0236	0.0210	94.6	57.7-134	11.8	20	L722226-02	WG743543
Methylene Chloride	mg/l	0.0233	0.0209	93.2	58.1-122	10.9	20	L722226-02	WG743543
n-Butylbenzene	mg/l	0.0223	0.0205	89.1	62.7-140	8.42	20.3	L722226-02	WG743543
n-Propylbenzene	mg/l	0.0236	0.0214	94.2	65.9-131	9.73	20	L722226-02	WG743543
Naphthalene	mg/l	0.0273	0.0244	109.	58-135	11.4	25.5	L722226-02	WG743543
p-Isopropyltoluene	mg/l	0.0238	0.0212	95.2	63.2-139	11.5	20.4	L722226-02	WG743543
sec-Butylbenzene	mg/l	0.0240	0.0219	96.0	62.2-136	9.29	20.3	L722226-02	WG743543
Styrene	mg/l	0.0224	0.0204	89.6	66.8-133	9.19	20	L722226-02	WG743543
tert-Butylbenzene	mg/l	0.0236	0.0216	94.5	63.3-134	8.77	21	L722226-02	WG743543
Tetrachloroethene	mg/l	0.0235	0.0210	94.1	53-139	11.3	20	L722226-02	WG743543
Toluene	mg/l	0.0225	0.0205	90.2	61.4-130	9.46	20	L722226-02	WG743543
trans-1,2-Dichloroethene	mg/l	0.0234	0.0208	93.6	56.5-129	11.8	20	L722226-02	WG743543
trans-1,3-Dichloropropene	mg/l	0.0248	0.0220	99.2	64.1-128	11.9	20	L722226-02	WG743543
Trichloroethene	mg/l	0.0234	0.0213	93.6	44.1-149	9.40	20	L722226-02	WG743543
Trichlorofluoromethane	mg/l	0.0254	0.0225	102.	49.6-145	12.0	21.2	L722226-02	WG743543
Vinyl chloride	mg/l	0.0210	0.0191	84.0	47.8-137	9.40	20	L722226-02	WG743543
Xylenes, Total	mg/l	0.0670	0.0607	89.3	63.3-131	9.83	20	L722226-02	WG743543
4-Bromofluorobenzene				101.0	71-126				WG743543
Dibromofluoromethane				109.0	78.3-121				WG743543
Toluene-d8				102.0	88.5-111				WG743543
1,1,1,2-Tetrachloroethane	mg/l	0.0278	0.0290	111.	64-128	4.42	20	L722103-01	WG743542
1,1,1-Trichloroethane	mg/l	0.0270	0.0287	108.	58.7-134	6.17	20	L722103-01	WG743542
1,1,2,2-Tetrachloroethane	mg/l	0.0259	0.0278	104.	56-132	7.17	22.2	L722103-01	WG743542
1,1,2-Trichloroethane	mg/l	0.0264	0.0285	106.	66.3-125	7.38	20	L722103-01	WG743542
1,1,2-Trichlorotrifluoroethane	mg/l	0.0254	0.0269	102.	54.8-154	5.81	22.5	L722103-01	WG743542
1,1-Dichloroethane	mg/l	0.0241	0.0257	96.5	58.5-132	6.37	20	L722103-01	WG743542
1,1-Dichloroethene	mg/l	0.0245	0.0256	98.2	51.1-140	4.05	20.2	L722103-01	WG743542
1,1-Dichloropropene	mg/l	0.0244	0.0267	97.5	57.3-136	9.04	20	L722103-01	WG743542
1,2,3-Trichlorobenzene	mg/l	0.0255	0.0289	102.	59.1-138	12.3	23.7	L722103-01	WG743542
1,2,3-Trichloropropane	mg/l	0.0269	0.0292	108.	61.4-128	8.24	22.4	L722103-01	WG743542
1,2,3-Trimethylbenzene	mg/l	0.0240	0.0262	95.9	61.3-122	8.76	20	L722103-01	WG743542
1,2,4-Trichlorobenzene	mg/l	0.0256	0.0275	102.	63.6-143	7.07	21.9	L722103-01	WG743542
1,2,4-Trimethylbenzene	mg/l	0.0269	0.0282	108.	57.4-137	4.67	20	L722103-01	WG743542
1,2-Dibromo-3-Chloropropane	mg/l	0.0255	0.0279	102.	57.3-136	8.98	27	L722103-01	WG743542
1,2-Dibromoethane	mg/l	0.0259	0.0283	104.	67.1-125	8.57	20	L722103-01	WG743542
1,2-Dichlorobenzene	mg/l	0.0242	0.0265	96.7	68.2-123	9.06	20	L722103-01	WG743542
1,2-Dichloroethane	mg/l	0.0242	0.0272	96.8	60-126	11.7	20	L722103-01	WG743542
1,2-Dichloropropane	mg/l	0.0237	0.0250	94.9	64.2-123	5.06	20	L722103-01	WG743542
1,3,5-Trimethylbenzene	mg/l	0.0277	0.0284	111.	63.6-132	2.67	20.5	L722103-01	WG743542
1,3-Dichlorobenzene	mg/l	0.0283	0.0303	113.	63.1-131	6.59	20	L722103-01	WG743542
1,3-Dichloropropane	mg/l	0.0245	0.0266	98.1	67.9-121	8.18	20	L722103-01	WG743542
1,4-Dichlorobenzene	mg/l	0.0245	0.0271	97.9	68.6-123	10.2	20	L722103-01	WG743542
2,2-Dichloropropane	mg/l	0.0277	0.0301	111.	50.5-144	8.15	21.9	L722103-01	WG743542
2-Butanone (MEK)	mg/l	0.112	0.131	89.2	22.4-138	15.6	27	L722103-01	WG743542
2-Chloroethyl vinyl ether	mg/l	0.0643	0.103	51.4	10-155	45.9*	20	L722103-01	WG743542
2-Chlorotoluene	mg/l	0.0266	0.0286	106.	63.6-128	7.28	20	L722103-01	WG743542
4-Chlorotoluene	mg/l	0.0263	0.0278	105.	65.7-127	5.60	20	L722103-01	WG743542
4-Methyl-2-pentanone (MIBK)	mg/l	0.115	0.131	91.6	60.8-140	13.3	25.1	L722103-01	WG743542
Acetone	mg/l	0.124	0.146	93.6	10-130	16.1	27.9	L722103-01	WG743542
Acrolein	mg/l	0.138	0.157	111.	10-200	12.4	27.7	L722103-01	WG743542
Acrylonitrile	mg/l	0.125	0.140	99.6	49.4-133	11.7	25.3	L722103-01	WG743542
Benzene	mg/l	0.0232	0.0248	92.7	54.3-133	6.75	20	L722103-01	WG743542
Bromobenzene	mg/l	0.0247	0.0262	98.6	63.9-124	5.91	20	L722103-01	WG743542
Bromodichloromethane	mg/l	0.0241	0.0259	96.5	63.9-121	7.23	20	L722103-01	WG743542
Bromoform	mg/l	0.0273	0.0303	109.	59.5-134	10.3	20.5	L722103-01	WG743542
Bromomethane	mg/l	0.0219	0.0233	87.7	41.7-155	6.23	21.9	L722103-01	WG743542
Carbon tetrachloride	mg/l	0.0272	0.0289	109.	55.7-134	6.06	20	L722103-01	WG743542

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Golden, CO 80401

Quality Assurance Report
Level II

L722204

September 29, 2014

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Chlorobenzene	mg/l	0.0245	0.0260	98.2	67-125	5.80	20	L722103-01	WG743542
Chlorodibromomethane	mg/l	0.0277	0.0301	111.	64.3-125	8.26	20.8	L722103-01	WG743542
Chloroethane	mg/l	0.0223	0.0232	89.0	51.5-136	4.14	40	L722103-01	WG743542
Chloroform	mg/l	0.0246	0.0259	98.3	63-129	5.21	20	L722103-01	WG743542
Chloromethane	mg/l	0.0236	0.0250	94.5	42.4-135	5.69	20	L722103-01	WG743542
cis-1,2-Dichloroethene	mg/l	0.0242	0.0259	96.8	59.2-129	6.70	20	L722103-01	WG743542
cis-1,3-Dichloropropene	mg/l	0.0244	0.0264	97.5	66.4-125	8.02	20	L722103-01	WG743542
Di-isopropyl ether	mg/l	0.0255	0.0270	102.	56.9-136	5.70	20	L722103-01	WG743542
Dibromomethane	mg/l	0.0249	0.0267	99.6	68.2-124	7.09	20	L722103-01	WG743542
Dichlorodifluoromethane	mg/l	0.0256	0.0271	102.	40.6-144	5.62	20.2	L722103-01	WG743542
Ethylbenzene	mg/l	0.0262	0.0279	105.	61.4-133	6.55	20	L722103-01	WG743542
Hexachloro-1,3-butadiene	mg/l	0.0266	0.0294	106.	55.1-136	9.92	23.6	L722103-01	WG743542
Isopropylbenzene	mg/l	0.0274	0.0290	110.	66.8-141	5.43	20	L722103-01	WG743542
Methyl tert-butyl ether	mg/l	0.0293	0.0317	95.2	57.7-134	8.07	20	L722103-01	WG743542
Methylene Chloride	mg/l	0.0230	0.0245	91.8	58.1-122	6.68	20	L722103-01	WG743542
n-Butylbenzene	mg/l	0.0256	0.0281	102.	62.7-140	9.45	20.3	L722103-01	WG743542
n-Propylbenzene	mg/l	0.0267	0.0279	107.	65.9-131	4.53	20	L722103-01	WG743542
Naphthalene	mg/l	0.0249	0.0279	99.7	58-135	11.2	25.5	L722103-01	WG743542
p-Isopropyltoluene	mg/l	0.0291	0.0311	116.	63.2-139	6.45	20.4	L722103-01	WG743542
sec-Butylbenzene	mg/l	0.0280	0.0299	112.	62.2-136	6.73	20.3	L722103-01	WG743542
Styrene	mg/l	0.0270	0.0284	108.	66.8-133	5.04	20	L722103-01	WG743542
tert-Butylbenzene	mg/l	0.0286	0.0301	114.	63.3-134	5.16	21	L722103-01	WG743542
Tetrachloroethene	mg/l	0.0267	0.0284	107.	53-139	6.20	20	L722103-01	WG743542
Toluene	mg/l	0.0237	0.0255	94.9	61.4-130	7.16	20	L722103-01	WG743542
trans-1,2-Dichloroethene	mg/l	0.0237	0.0254	94.6	56.5-129	7.06	20	L722103-01	WG743542
trans-1,3-Dichloropropene	mg/l	0.0250	0.0272	100.	64.1-128	8.40	20	L722103-01	WG743542
Trichloroethene	mg/l	0.0245	0.0263	98.0	44.1-149	7.13	20	L722103-01	WG743542
Trichlorofluoromethane	mg/l	0.0266	0.0290	106.	49.6-145	8.87	21.2	L722103-01	WG743542
Vinyl chloride	mg/l	0.0237	0.0254	95.0	47.8-137	6.79	20	L722103-01	WG743542
Xylenes, Total	mg/l	0.0770	0.0818	103.	63.3-131	6.04	20	L722103-01	WG743542
4-Bromofluorobenzene				103.0	71-126				WG743542
Dibromofluoromethane				105.0	78.3-121				WG743542
Toluene-d8				99.30	88.5-111				WG743542
1,1,1,2-Tetrachloroethane	mg/l	0.120	0.121	96.2	64-128	0.460	20	L722204-06	WG744517
1,1,1-Trichloroethane	mg/l	0.120	0.112	95.7	58.7-134	6.46	20	L722204-06	WG744517
1,1,2,2-Tetrachloroethane	mg/l	0.114	0.115	91.5	56-132	0.800	22.2	L722204-06	WG744517
1,1,2-Trichloroethane	mg/l	0.116	0.114	92.4	66.3-125	1.53	20	L722204-06	WG744517
1,1,2-Trichlorotrifluoroethane	mg/l	0.127	0.127	101.	54.8-154	0.380	22.5	L722204-06	WG744517
1,1-Dichloroethane	mg/l	0.117	0.112	93.7	58.5-132	4.81	20	L722204-06	WG744517
1,1-Dichloroethene	mg/l	0.122	0.121	97.7	51.1-140	1.38	20.2	L722204-06	WG744517
1,1-Dichloropropene	mg/l	0.112	0.107	89.4	57.3-136	3.94	20	L722204-06	WG744517
1,2,3-Trichlorobenzene	mg/l	0.117	0.114	93.5	59.1-138	2.32	23.7	L722204-06	WG744517
1,2,3-Trichloropropane	mg/l	0.115	0.119	91.6	61.4-128	3.54	22.4	L722204-06	WG744517
1,2,3-Trimethylbenzene	mg/l	0.123	0.121	95.0	61.3-122	2.30	20	L722204-06	WG744517
1,2,4-Trichlorobenzene	mg/l	0.123	0.119	98.1	63.6-143	2.80	21.9	L722204-06	WG744517
1,2,4-Trimethylbenzene	mg/l	0.131	0.133	93.0	57.4-137	1.44	20	L722204-06	WG744517
1,2-Dibromo-3-Chloropropane	mg/l	0.105	0.103	84.0	57.3-136	1.88	27	L722204-06	WG744517
1,2-Dibromoethane	mg/l	0.116	0.114	92.9	67.1-125	2.03	20	L722204-06	WG744517
1,2-Dichlorobenzene	mg/l	0.121	0.117	96.5	68.2-123	2.67	20	L722204-06	WG744517
1,2-Dichloroethane	mg/l	0.118	0.115	94.2	60-126	2.34	20	L722204-06	WG744517
1,2-Dichloropropane	mg/l	0.116	0.114	93.1	64.2-123	2.18	20	L722204-06	WG744517
1,3,5-Trimethylbenzene	mg/l	0.125	0.124	96.7	63.6-132	0.730	20.5	L722204-06	WG744517
1,3-Dichlorobenzene	mg/l	0.116	0.117	93.1	63.1-131	0.320	20	L722204-06	WG744517
1,3-Dichloropropane	mg/l	0.110	0.109	87.8	67.9-121	1.08	20	L722204-06	WG744517
1,4-Dichlorobenzene	mg/l	0.119	0.119	95.5	68.6-123	0.680	20	L722204-06	WG744517
2,2-Dichloropropane	mg/l	0.117	0.110	93.4	50.5-144	6.01	21.9	L722204-06	WG744517
2-Butanone (MEK)	mg/l	0.498	0.481	79.7	22.4-138	3.63	27	L722204-06	WG744517

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Quality Assurance Report
Level II

L722204

September 29, 2014

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
2-Chloroethyl vinyl ether	mg/l	0.384	0.453	61.4	10-155	16.6	20	L722204-06	WG744517
2-Chlorotoluene	mg/l	0.114	0.111	91.3	63.6-128	2.86	20	L722204-06	WG744517
4-Chlorotoluene	mg/l	0.113	0.112	90.5	65.7-127	0.620	20	L722204-06	WG744517
4-Methyl-2-pentanone (MIBK)	mg/l	0.511	0.523	81.7	60.8-140	2.38	25.1	L722204-06	WG744517
Acetone	mg/l	0.541	0.504	84.0	10-130	7.01	27.9	L722204-06	WG744517
Acrolein	mg/l	0.378	0.399	60.5	10-200	5.34	27.7	L722204-06	WG744517
Acrylonitrile	mg/l	0.548	0.531	87.6	49.4-133	3.02	25.3	L722204-06	WG744517
Benzene	mg/l	0.114	0.110	90.2	54.3-133	2.85	20	L722204-06	WG744517
Bromobenzene	mg/l	0.112	0.113	89.6	63.9-124	0.980	20	L722204-06	WG744517
Bromodichloromethane	mg/l	0.113	0.111	90.7	63.9-121	2.47	20	L722204-06	WG744517
Bromoform	mg/l	0.107	0.109	85.2	59.5-134	2.36	20.5	L722204-06	WG744517
Bromomethane	mg/l	0.134	0.140	107.	41.7-155	4.49	21.9	L722204-06	WG744517
Carbon tetrachloride	mg/l	0.115	0.110	92.4	55.7-134	5.05	20	L722204-06	WG744517
Chlorobenzene	mg/l	0.116	0.115	92.4	67-125	0.500	20	L722204-06	WG744517
Chlorodibromomethane	mg/l	0.114	0.111	90.8	64.3-125	2.34	20.8	L722204-06	WG744517
Chloroethane	mg/l	0.145	0.141	116.	51.5-136	2.68	40	L722204-06	WG744517
Chloroform	mg/l	0.116	0.112	92.8	63-129	3.76	20	L722204-06	WG744517
Chloromethane	mg/l	0.103	0.100	82.4	42.4-135	2.49	20	L722204-06	WG744517
cis-1,2-Dichloroethene	mg/l	0.113	0.110	90.5	59.2-129	3.01	20	L722204-06	WG744517
cis-1,3-Dichloropropene	mg/l	0.114	0.108	91.2	66.4-125	5.20	20	L722204-06	WG744517
Di-isopropyl ether	mg/l	0.115	0.112	91.8	56.9-136	2.41	20	L722204-06	WG744517
Dibromomethane	mg/l	0.116	0.114	92.7	68.2-124	1.16	20	L722204-06	WG744517
Dichlorodifluoromethane	mg/l	0.122	0.117	97.4	40.6-144	4.23	20.2	L722204-06	WG744517
Ethylbenzene	mg/l	0.132	0.133	93.4	61.4-133	1.26	20	L722204-06	WG744517
Hexachloro-1,3-butadiene	mg/l	0.122	0.114	97.5	55.1-136	6.46	23.6	L722204-06	WG744517
Isopropylbenzene	mg/l	0.123	0.122	96.2	66.8-141	0.730	20	L722204-06	WG744517
Methyl tert-butyl ether	mg/l	0.109	0.106	87.0	57.7-134	2.76	20	L722204-06	WG744517
Methylene Chloride	mg/l	0.109	0.108	87.0	58.1-122	1.81	20	L722204-06	WG744517
n-Butylbenzene	mg/l	0.127	0.124	101.	62.7-140	2.19	20.3	L722204-06	WG744517
n-Propylbenzene	mg/l	0.120	0.120	95.2	65.9-131	0.0700	20	L722204-06	WG744517
Naphthalene	mg/l	0.330	0.321	86.6	58-135	2.82	25.5	L722204-06	WG744517
p-Isopropyltoluene	mg/l	0.126	0.122	99.5	63.2-139	3.50	20.4	L722204-06	WG744517
sec-Butylbenzene	mg/l	0.122	0.118	97.4	62.2-136	2.95	20.3	L722204-06	WG744517
Styrene	mg/l	0.112	0.111	89.2	66.8-133	0.790	20	L722204-06	WG744517
tert-Butylbenzene	mg/l	0.124	0.122	99.2	63.3-134	1.75	21	L722204-06	WG744517
Tetrachloroethene	mg/l	0.119	0.116	95.1	53-139	2.30	20	L722204-06	WG744517
Toluene	mg/l	0.116	0.117	92.2	61.4-130	0.130	20	L722204-06	WG744517
trans-1,2-Dichloroethene	mg/l	0.109	0.104	86.8	56.5-129	4.63	20	L722204-06	WG744517
trans-1,3-Dichloropropene	mg/l	0.110	0.108	87.9	64.1-128	1.49	20	L722204-06	WG744517
Trichloroethene	mg/l	0.116	0.114	93.0	44.1-149	2.06	20	L722204-06	WG744517
Trichlorofluoromethane	mg/l	0.140	0.137	112.	49.6-145	1.55	21.2	L722204-06	WG744517
Vinyl chloride	mg/l	0.118	0.115	94.5	47.8-137	2.81	20	L722204-06	WG744517
Xylenes, Total	mg/l	0.371	0.360	95.6	63.3-131	3.09	20	L722204-06	WG744517
4-Bromofluorobenzene				102.0	71-126				WG744517
Dibromofluoromethane				103.0	78.3-121				WG744517
Toluene-d8				98.80	88.5-111				WG744517

Batch number /Run number / Sample number cross reference

WG743763: R2990939 R2991994: L722204-01 02 05 06 07 09 12 13
WG743543: R2991681: L722204-03 04 05 07 08 09 10 11 12 13 14
WG744065: R2991748 R2992534 R2993100: L722204-03 04 08 10
WG743542: R2991911: L722204-01 02
WG744246: R2991978 R2991982 R2993480: L722204-11
WG744517: R2992230: L722204-03 06 07 08 09 11 13

* * Calculations are performed prior to rounding of reported values.
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Quality Assurance Report
Level II

L722204

September 29, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Report Summary

Friday October 17, 2014

Report Number: L727166
Samples Received: 10/11/14
Client Project: 5047-RC-C100

Description: 13th Street Plaza

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Entire Report Reviewed By:

Darren Reeder , ESC Representative

Laboratory Certification Numbers

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-01

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW3R_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 11:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.50	2.5	mg/l		8260B	10/14/14	50
Acrolein	U	0.44	2.5	mg/l		8260B	10/14/14	50
Acrylonitrile	U	0.094	0.50	mg/l		8260B	10/14/14	50
Benzene	0.17	0.016	0.050	mg/l		8260B	10/14/14	50
Bromobenzene	U	0.018	0.050	mg/l		8260B	10/14/14	50
Bromodichloromethane	U	0.019	0.050	mg/l		8260B	10/14/14	50
Bromoform	U	0.023	0.050	mg/l		8260B	10/14/14	50
Bromomethane	U	0.043	0.25	mg/l		8260B	10/14/14	50
n-Butylbenzene	U	0.018	0.050	mg/l		8260B	10/14/14	50
sec-Butylbenzene	U	0.018	0.050	mg/l		8260B	10/14/14	50
tert-Butylbenzene	U	0.020	0.050	mg/l		8260B	10/14/14	50
Carbon tetrachloride	U	0.019	0.050	mg/l		8260B	10/14/14	50
Chlorobenzene	U	0.017	0.050	mg/l		8260B	10/14/14	50
Chlorodibromomethane	U	0.016	0.050	mg/l		8260B	10/14/14	50
Chloroethane	U	0.023	0.25	mg/l		8260B	10/14/14	50
2-Chloroethyl vinyl ether	U	0.15	2.5	mg/l		8260B	10/14/14	50
Chloroform	U	0.016	0.25	mg/l		8260B	10/14/14	50
Chloromethane	U	0.014	0.13	mg/l		8260B	10/14/14	50
2-Chlorotoluene	U	0.019	0.050	mg/l		8260B	10/14/14	50
4-Chlorotoluene	U	0.018	0.050	mg/l		8260B	10/14/14	50
1,2-Dibromo-3-Chloropropane	U	0.066	0.25	mg/l		8260B	10/14/14	50
1,2-Dibromoethane	U	0.019	0.050	mg/l		8260B	10/14/14	50
Dibromomethane	U	0.017	0.050	mg/l		8260B	10/14/14	50
1,2-Dichlorobenzene	U	0.017	0.050	mg/l		8260B	10/14/14	50
1,3-Dichlorobenzene	U	0.011	0.050	mg/l		8260B	10/14/14	50
1,4-Dichlorobenzene	U	0.014	0.050	mg/l		8260B	10/14/14	50
Dichlorodifluoromethane	U	0.028	0.25	mg/l		8260B	10/14/14	50
1,1-Dichloroethane	U	0.013	0.050	mg/l		8260B	10/14/14	50
1,2-Dichloroethane	U	0.018	0.050	mg/l		8260B	10/14/14	50
1,1-Dichloroethene	U	0.020	0.050	mg/l		8260B	10/14/14	50
cis-1,2-Dichloroethene	U	0.013	0.050	mg/l		8260B	10/14/14	50
trans-1,2-Dichloroethene	U	0.020	0.050	mg/l		8260B	10/14/14	50
1,2-Dichloropropane	U	0.015	0.050	mg/l		8260B	10/14/14	50
1,1-Dichloropropene	U	0.018	0.050	mg/l		8260B	10/14/14	50
1,3-Dichloropropane	U	0.018	0.050	mg/l		8260B	10/14/14	50
cis-1,3-Dichloropropene	U	0.021	0.050	mg/l		8260B	10/14/14	50
trans-1,3-Dichloropropene	U	0.021	0.050	mg/l		8260B	10/14/14	50
2,2-Dichloropropane	U	0.016	0.050	mg/l		8260B	10/14/14	50
Di-isopropyl ether	U	0.016	0.050	mg/l		8260B	10/14/14	50
Ethylbenzene	0.64	0.019	0.050	mg/l		8260B	10/14/14	50
Hexachloro-1,3-butadiene	U	0.013	0.050	mg/l		8260B	10/14/14	50
Isopropylbenzene	0.068	0.016	0.050	mg/l		8260B	10/14/14	50

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-01

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW3R_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 11:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.034	0.018	0.050	mg/l	J	8260B	10/14/14	50
2-Butanone (MEK)	U	0.20	0.50	mg/l		8260B	10/14/14	50
Methylene Chloride	U	0.050	0.25	mg/l		8260B	10/14/14	50
4-Methyl-2-pentanone (MIBK)	U	0.11	0.50	mg/l		8260B	10/14/14	50
Methyl tert-butyl ether	U	0.018	0.050	mg/l		8260B	10/14/14	50
Naphthalene	8.0	0.050	0.25	mg/l		8260B	10/14/14	50
n-Propylbenzene	U	0.017	0.050	mg/l		8260B	10/14/14	50
Styrene	U	0.015	0.050	mg/l		8260B	10/14/14	50
1,1,1,2-Tetrachloroethane	U	0.019	0.050	mg/l		8260B	10/14/14	50
1,1,2,2-Tetrachloroethane	U	0.029	0.050	mg/l		8260B	10/14/14	50
1,1,2-Trichlorotrifluoroethane	U	0.015	0.050	mg/l		8260B	10/14/14	50
Tetrachloroethene	U	0.019	0.050	mg/l		8260B	10/14/14	50
Toluene	0.14	0.039	0.25	mg/l	J	8260B	10/14/14	50
1,2,3-Trichlorobenzene	U	0.012	0.050	mg/l		8260B	10/14/14	50
1,2,4-Trichlorobenzene	U	0.011	0.050	mg/l		8260B	10/14/14	50
1,1,1-Trichloroethane	U	0.016	0.050	mg/l		8260B	10/14/14	50
1,1,2-Trichloroethane	U	0.019	0.050	mg/l		8260B	10/14/14	50
Trichloroethene	U	0.020	0.050	mg/l		8260B	10/14/14	50
Trichlorofluoromethane	U	0.060	0.25	mg/l		8260B	10/14/14	50
1,2,3-Trichloropropane	U	0.040	0.13	mg/l		8260B	10/14/14	50
1,2,4-Trimethylbenzene	0.29	0.019	0.050	mg/l		8260B	10/14/14	50
1,2,3-Trimethylbenzene	0.090	0.016	0.050	mg/l		8260B	10/14/14	50
1,3,5-Trimethylbenzene	0.11	0.019	0.050	mg/l		8260B	10/14/14	50
Vinyl chloride	U	0.013	0.050	mg/l		8260B	10/14/14	50
Xylenes, Total	0.61	0.053	0.15	mg/l		8260B	10/14/14	50
Surrogate Recovery								
Toluene-d8	99.9			% Rec.		8260B	10/14/14	50
Dibromofluoromethane	98.3			% Rec.		8260B	10/14/14	50
4-Bromofluorobenzene	100.			% Rec.		8260B	10/14/14	50
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.023	0.0000076	0.000050	mg/l		8270C-S	10/17/14	1
Acenaphthene	0.24	0.00041	0.0025	mg/l		8270C-S	10/17/14	50
Acenaphthylene	0.052	0.0000068	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(a)anthracene	0.0078	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(a)pyrene	0.0053	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(b)fluoranthene	0.0044	0.000014	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(g,h,i)perylene	0.0017	0.000011	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(k)fluoranthene	0.0012	0.000014	0.000050	mg/l		8270C-S	10/17/14	1
Chrysene	0.0070	0.000011	0.000050	mg/l		8270C-S	10/17/14	1
Dibenz(a,h)anthracene	0.00029	0.0000040	0.000050	mg/l		8270C-S	10/17/14	1
Fluoranthene	0.014	0.000016	0.000050	mg/l		8270C-S	10/17/14	1
Fluorene	0.080	0.0000085	0.000050	mg/l		8270C-S	10/17/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-01

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW3R_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 11:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.0014	0.000015	0.000050	mg/l		8270C-S	10/17/14	1
Naphthalene	4.8	0.00099	0.013	mg/l		8270C-S	10/17/14	50
Phenanthrene	0.10	0.0000082	0.000050	mg/l		8270C-S	10/17/14	1
Pyrene	0.019	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
1-Methylnaphthalene	1.0	0.00041	0.013	mg/l		8270C-S	10/17/14	50
2-Methylnaphthalene	1.1	0.00045	0.013	mg/l		8270C-S	10/17/14	50
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	10/17/14	1
Surrogate Recovery								
Nitrobenzene-d5	90.8			% Rec.	J7	8270C-S	10/17/14	50
2-Fluorobiphenyl	58.5			% Rec.		8270C-S	10/17/14	1
p-Terphenyl-d14	95.6			% Rec.		8270C-S	10/17/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-02

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW5_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 10:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	0.010	0.010	0.050	mg/l	J	8260B	10/14/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	10/14/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	10/14/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	10/14/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	10/14/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	10/14/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	10/14/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	10/14/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	10/14/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	10/14/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	10/14/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l	J3	8260B	10/14/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	10/14/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	10/14/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	10/14/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	10/14/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	10/14/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	10/14/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	10/14/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	10/14/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	10/14/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	10/14/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	10/14/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	10/14/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	10/14/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	10/14/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	10/14/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	10/14/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	10/14/14	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	10/14/14	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	10/14/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-02

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW5_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 10:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	10/14/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	10/14/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	10/14/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	10/14/14	1
Naphthalene	0.0011	0.0010	0.0050	mg/l	J	8260B	10/14/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	10/14/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		8260B	10/14/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	10/14/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	10/14/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	10/14/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	10/14/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	10/14/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	10/14/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	10/14/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	10/14/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	10/14/14	1
1,2,4-Trimethylbenzene	0.00093	0.00037	0.0010	mg/l	J	8260B	10/14/14	1
1,2,3-Trimethylbenzene	0.00040	0.00032	0.0010	mg/l	J	8260B	10/14/14	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	10/14/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	10/14/14	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	10/14/14	1
Surrogate Recovery								
Toluene-d8	96.9			% Rec.		8260B	10/14/14	1
Dibromofluoromethane	101.			% Rec.		8260B	10/14/14	1
4-Bromofluorobenzene	107.			% Rec.		8260B	10/14/14	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0040	0.0000076	0.000050	mg/l		8270C-S	10/17/14	1
Acenaphthene	0.0080	0.0000082	0.000050	mg/l		8270C-S	10/17/14	1
Acenaphthylene	0.012	0.0000068	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(a)anthracene	0.0029	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(a)pyrene	0.0030	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(b)fluoranthene	0.0022	0.000014	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(g,h,i)perylene	0.0013	0.000011	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(k)fluoranthene	0.00058	0.000014	0.000050	mg/l		8270C-S	10/17/14	1
Chrysene	0.0028	0.000011	0.000050	mg/l		8270C-S	10/17/14	1
Dibenz(a,h)anthracene	0.00011	0.0000040	0.000050	mg/l		8270C-S	10/17/14	1
Fluoranthene	0.0056	0.000016	0.000050	mg/l		8270C-S	10/17/14	1
Fluorene	0.0034	0.0000085	0.000050	mg/l		8270C-S	10/17/14	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-02

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW5_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 10:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.00097	0.000015	0.000050	mg/l		8270C-S	10/17/14	1
Naphthalene	0.00081	0.000020	0.00025	mg/l		8270C-S	10/17/14	1
Phenanthrene	0.011	0.0000082	0.000050	mg/l		8270C-S	10/17/14	1
Pyrene	0.011	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
1-Methylnaphthalene	0.016	0.0000082	0.00025	mg/l		8270C-S	10/17/14	1
2-Methylnaphthalene	0.00065	0.0000090	0.00025	mg/l		8270C-S	10/17/14	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	10/17/14	1
Surrogate Recovery								
Nitrobenzene-d5	99.1			% Rec.		8270C-S	10/17/14	1
2-Fluorobiphenyl	96.4			% Rec.		8270C-S	10/17/14	1
p-Terphenyl-d14	89.9			% Rec.		8270C-S	10/17/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-03

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW8R_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 11:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.020	0.10	mg/l		8260B	10/14/14	2
Acrolein	U	0.018	0.10	mg/l		8260B	10/14/14	2
Acrylonitrile	U	0.0037	0.020	mg/l		8260B	10/14/14	2
Benzene	0.0059	0.00066	0.0020	mg/l		8260B	10/14/14	2
Bromobenzene	U	0.00070	0.0020	mg/l		8260B	10/14/14	2
Bromodichloromethane	U	0.00076	0.0020	mg/l		8260B	10/14/14	2
Bromoform	U	0.00094	0.0020	mg/l		8260B	10/14/14	2
Bromomethane	U	0.0017	0.010	mg/l		8260B	10/14/14	2
n-Butylbenzene	U	0.00072	0.0020	mg/l		8260B	10/14/14	2
sec-Butylbenzene	U	0.00073	0.0020	mg/l		8260B	10/14/14	2
tert-Butylbenzene	U	0.00080	0.0020	mg/l		8260B	10/14/14	2
Carbon tetrachloride	U	0.00076	0.0020	mg/l		8260B	10/14/14	2
Chlorobenzene	U	0.00070	0.0020	mg/l		8260B	10/14/14	2
Chlorodibromomethane	U	0.00065	0.0020	mg/l		8260B	10/14/14	2
Chloroethane	U	0.00091	0.010	mg/l		8260B	10/14/14	2
2-Chloroethyl vinyl ether	U	0.0060	0.10	mg/l		8260B	10/14/14	2
Chloroform	U	0.00065	0.010	mg/l		8260B	10/14/14	2
Chloromethane	U	0.00055	0.0050	mg/l		8260B	10/14/14	2
2-Chlorotoluene	U	0.00075	0.0020	mg/l		8260B	10/14/14	2
4-Chlorotoluene	U	0.00070	0.0020	mg/l		8260B	10/14/14	2
1,2-Dibromo-3-Chloropropane	U	0.0027	0.010	mg/l		8260B	10/14/14	2
1,2-Dibromoethane	U	0.00076	0.0020	mg/l		8260B	10/14/14	2
Dibromomethane	U	0.00069	0.0020	mg/l		8260B	10/14/14	2
1,2-Dichlorobenzene	U	0.00070	0.0020	mg/l		8260B	10/14/14	2
1,3-Dichlorobenzene	U	0.00044	0.0020	mg/l		8260B	10/14/14	2
1,4-Dichlorobenzene	U	0.00055	0.0020	mg/l		8260B	10/14/14	2
Dichlorodifluoromethane	U	0.0011	0.010	mg/l		8260B	10/14/14	2
1,1-Dichloroethane	U	0.00052	0.0020	mg/l		8260B	10/14/14	2
1,2-Dichloroethane	U	0.00072	0.0020	mg/l		8260B	10/14/14	2
1,1-Dichloroethene	U	0.00080	0.0020	mg/l		8260B	10/14/14	2
cis-1,2-Dichloroethene	U	0.00052	0.0020	mg/l		8260B	10/14/14	2
trans-1,2-Dichloroethene	U	0.00079	0.0020	mg/l		8260B	10/14/14	2
1,2-Dichloropropane	U	0.00061	0.0020	mg/l		8260B	10/14/14	2
1,1-Dichloropropene	U	0.00070	0.0020	mg/l		8260B	10/14/14	2
1,3-Dichloropropane	U	0.00073	0.0020	mg/l		8260B	10/14/14	2
cis-1,3-Dichloropropene	U	0.00084	0.0020	mg/l		8260B	10/14/14	2
trans-1,3-Dichloropropene	U	0.00084	0.0020	mg/l		8260B	10/14/14	2
2,2-Dichloropropane	U	0.00064	0.0020	mg/l		8260B	10/14/14	2
Di-isopropyl ether	U	0.00064	0.0020	mg/l		8260B	10/14/14	2
Ethylbenzene	U	0.00077	0.0020	mg/l		8260B	10/14/14	2
Hexachloro-1,3-butadiene	U	0.00051	0.0020	mg/l		8260B	10/14/14	2
Isopropylbenzene	0.0034	0.00065	0.0020	mg/l		8260B	10/14/14	2

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-03

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW8R_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 11:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.0012	0.00070	0.0020	mg/l	J	8260B	10/14/14	2
2-Butanone (MEK)	U	0.0079	0.020	mg/l		8260B	10/14/14	2
Methylene Chloride	U	0.0020	0.010	mg/l		8260B	10/14/14	2
4-Methyl-2-pentanone (MIBK)	U	0.0043	0.020	mg/l		8260B	10/14/14	2
Methyl tert-butyl ether	U	0.00073	0.0020	mg/l		8260B	10/14/14	2
Naphthalene	0.34	0.0020	0.010	mg/l		8260B	10/14/14	2
n-Propylbenzene	U	0.00070	0.0020	mg/l		8260B	10/14/14	2
Styrene	U	0.00061	0.0020	mg/l		8260B	10/14/14	2
1,1,1,2-Tetrachloroethane	U	0.00077	0.0020	mg/l		8260B	10/14/14	2
1,1,2,2-Tetrachloroethane	U	0.0012	0.0020	mg/l		8260B	10/14/14	2
1,1,2-Trichlorotrifluoroethane	U	0.00061	0.0020	mg/l		8260B	10/14/14	2
Tetrachloroethene	U	0.00074	0.0020	mg/l		8260B	10/14/14	2
Toluene	U	0.0016	0.010	mg/l		8260B	10/14/14	2
1,2,3-Trichlorobenzene	U	0.00046	0.0020	mg/l		8260B	10/14/14	2
1,2,4-Trichlorobenzene	U	0.00043	0.0020	mg/l		8260B	10/14/14	2
1,1,1-Trichloroethane	U	0.00064	0.0020	mg/l		8260B	10/14/14	2
1,1,2-Trichloroethane	U	0.00077	0.0020	mg/l		8260B	10/14/14	2
Trichloroethene	U	0.00080	0.0020	mg/l		8260B	10/14/14	2
Trichlorofluoromethane	U	0.0024	0.010	mg/l		8260B	10/14/14	2
1,2,3-Trichloropropane	U	0.0016	0.0050	mg/l		8260B	10/14/14	2
1,2,4-Trimethylbenzene	0.016	0.00075	0.0020	mg/l		8260B	10/14/14	2
1,2,3-Trimethylbenzene	0.0073	0.00064	0.0020	mg/l		8260B	10/14/14	2
1,3,5-Trimethylbenzene	0.0061	0.00077	0.0020	mg/l		8260B	10/14/14	2
Vinyl chloride	U	0.00052	0.0020	mg/l		8260B	10/14/14	2
Xylenes, Total	0.019	0.0021	0.0060	mg/l		8260B	10/14/14	2
Surrogate Recovery								
Toluene-d8	99.6			% Rec.		8260B	10/14/14	2
Dibromofluoromethane	93.5			% Rec.		8260B	10/14/14	2
4-Bromofluorobenzene	99.2			% Rec.		8260B	10/14/14	2
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.000088	0.0000076	0.000050	mg/l		8270C-S	10/17/14	1
Acenaphthene	0.0078	0.0000082	0.000050	mg/l		8270C-S	10/17/14	1
Acenaphthylene	0.00046	0.0000068	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(a)anthracene	0.000064	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(a)pyrene	0.000045	0.000012	0.000050	mg/l	J	8270C-S	10/17/14	1
Benzo(b)fluoranthene	0.000035	0.000014	0.000050	mg/l	J	8270C-S	10/17/14	1
Benzo(g,h,i)perylene	0.000018	0.000011	0.000050	mg/l	J	8270C-S	10/17/14	1
Benzo(k)fluoranthene	0.000016	0.000014	0.000050	mg/l	J	8270C-S	10/17/14	1
Chrysene	0.000067	0.000011	0.000050	mg/l		8270C-S	10/17/14	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	10/17/14	1
Fluoranthene	0.00023	0.000016	0.000050	mg/l		8270C-S	10/17/14	1
Fluorene	0.00046	0.0000085	0.000050	mg/l		8270C-S	10/17/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-03

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW8R_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 11:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000015	0.000050	mg/l		8270C-S	10/17/14	1
Naphthalene	0.00013	0.000020	0.00025	mg/l	J	8270C-S	10/17/14	1
Phenanthrene	0.000027	0.0000082	0.000050	mg/l	J	8270C-S	10/17/14	1
Pyrene	0.00040	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
1-Methylnaphthalene	0.0016	0.0000082	0.00025	mg/l		8270C-S	10/17/14	1
2-Methylnaphthalene	0.000040	0.0000090	0.00025	mg/l	J	8270C-S	10/17/14	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	10/17/14	1
Surrogate Recovery								
Nitrobenzene-d5	98.7			% Rec.		8270C-S	10/17/14	1
2-Fluorobiphenyl	99.6			% Rec.		8270C-S	10/17/14	1
p-Terphenyl-d14	93.8			% Rec.		8270C-S	10/17/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-04

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW11_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 10:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	10/14/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	10/14/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	10/14/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	10/14/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	10/14/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	10/14/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	10/14/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	10/14/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	10/14/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	10/14/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	10/14/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	10/14/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	10/14/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	10/14/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	10/14/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	10/14/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	10/14/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	10/14/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	10/14/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	10/14/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	10/14/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	10/14/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	10/14/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	10/14/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	10/14/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	10/14/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	10/14/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	10/14/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	10/14/14	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	10/14/14	1
Isopropylbenzene	0.00066	0.00033	0.0010	mg/l	J	8260B	10/14/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-04

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW11_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 10:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.00044	0.00035	0.0010	mg/l	J	8260B	10/14/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	10/14/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	10/14/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	10/14/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	10/14/14	1
Naphthalene	0.013	0.0010	0.0050	mg/l		8260B	10/14/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	10/14/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	10/14/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
1,1,2,2-Tetrachloroethane	U	0.00058	0.0010	mg/l		8260B	10/14/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	10/14/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	10/14/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	10/14/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	10/14/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	10/14/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	10/14/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	10/14/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	10/14/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	10/14/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	10/14/14	1
1,2,4-Trimethylbenzene	0.0010	0.00037	0.0010	mg/l		8260B	10/14/14	1
1,2,3-Trimethylbenzene	0.0013	0.00032	0.0010	mg/l		8260B	10/14/14	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	10/14/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	10/14/14	1
Xylenes, Total	0.0048	0.0011	0.0030	mg/l		8260B	10/14/14	1
Surrogate Recovery								
Toluene-d8	98.5			% Rec.		8260B	10/14/14	1
Dibromofluoromethane	95.0			% Rec.		8260B	10/14/14	1
4-Bromofluorobenzene	102.			% Rec.		8260B	10/14/14	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0039	0.0000076	0.000050	mg/l		8270C-S	10/17/14	1
Acenaphthene	0.0075	0.0000082	0.000050	mg/l		8270C-S	10/17/14	1
Acenaphthylene	0.013	0.0000068	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(a)anthracene	0.0016	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(a)pyrene	0.00078	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(b)fluoranthene	0.00059	0.000014	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(g,h,i)perylene	0.00022	0.000011	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(k)fluoranthene	0.00015	0.000014	0.000050	mg/l		8270C-S	10/17/14	1
Chrysene	0.0013	0.000011	0.000050	mg/l		8270C-S	10/17/14	1
Dibenz(a,h)anthracene	0.000024	0.0000040	0.000050	mg/l	J	8270C-S	10/17/14	1
Fluoranthene	0.0080	0.000016	0.000050	mg/l		8270C-S	10/17/14	1
Fluorene	0.0030	0.0000085	0.000050	mg/l		8270C-S	10/17/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-04

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW11_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 10:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.00017	0.000015	0.000050	mg/l		8270C-S	10/17/14	1
Naphthalene	0.00091	0.000020	0.00025	mg/l		8270C-S	10/17/14	1
Phenanthrene	0.0039	0.0000082	0.000050	mg/l		8270C-S	10/17/14	1
Pyrene	0.012	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
1-Methylnaphthalene	0.0086	0.0000082	0.00025	mg/l		8270C-S	10/17/14	1
2-Methylnaphthalene	0.000077	0.0000090	0.00025	mg/l	J	8270C-S	10/17/14	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	10/17/14	1
Surrogate Recovery								
Nitrobenzene-d5	92.6			% Rec.		8270C-S	10/17/14	1
2-Fluorobiphenyl	97.7			% Rec.		8270C-S	10/17/14	1
p-Terphenyl-d14	93.6			% Rec.		8270C-S	10/17/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-05

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW12_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 11:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.25	1.3	mg/l		8260B	10/14/14	25
Acrolein	U	0.22	1.3	mg/l		8260B	10/14/14	25
Acrylonitrile	U	0.047	0.25	mg/l		8260B	10/14/14	25
Benzene	0.017	0.0083	0.025	mg/l	J	8260B	10/14/14	25
Bromobenzene	U	0.0088	0.025	mg/l		8260B	10/14/14	25
Bromodichloromethane	U	0.0095	0.025	mg/l		8260B	10/14/14	25
Bromoform	U	0.012	0.025	mg/l		8260B	10/14/14	25
Bromomethane	U	0.022	0.13	mg/l		8260B	10/14/14	25
n-Butylbenzene	U	0.0090	0.025	mg/l		8260B	10/14/14	25
sec-Butylbenzene	U	0.0091	0.025	mg/l		8260B	10/14/14	25
tert-Butylbenzene	U	0.010	0.025	mg/l		8260B	10/14/14	25
Carbon tetrachloride	U	0.0095	0.025	mg/l		8260B	10/14/14	25
Chlorobenzene	U	0.0087	0.025	mg/l		8260B	10/14/14	25
Chlorodibromomethane	U	0.0082	0.025	mg/l		8260B	10/14/14	25
Chloroethane	U	0.011	0.13	mg/l		8260B	10/14/14	25
2-Chloroethyl vinyl ether	U	0.075	1.3	mg/l		8260B	10/14/14	25
Chloroform	U	0.0081	0.13	mg/l		8260B	10/14/14	25
Chloromethane	U	0.0069	0.063	mg/l		8260B	10/14/14	25
2-Chlorotoluene	U	0.0094	0.025	mg/l		8260B	10/14/14	25
4-Chlorotoluene	U	0.0088	0.025	mg/l		8260B	10/14/14	25
1,2-Dibromo-3-Chloropropane	U	0.033	0.13	mg/l		8260B	10/14/14	25
1,2-Dibromoethane	U	0.0095	0.025	mg/l		8260B	10/14/14	25
Dibromomethane	U	0.0086	0.025	mg/l		8260B	10/14/14	25
1,2-Dichlorobenzene	U	0.0087	0.025	mg/l		8260B	10/14/14	25
1,3-Dichlorobenzene	U	0.0055	0.025	mg/l		8260B	10/14/14	25
1,4-Dichlorobenzene	U	0.0068	0.025	mg/l		8260B	10/14/14	25
Dichlorodifluoromethane	U	0.014	0.13	mg/l		8260B	10/14/14	25
1,1-Dichloroethane	U	0.0065	0.025	mg/l		8260B	10/14/14	25
1,2-Dichloroethane	U	0.0090	0.025	mg/l		8260B	10/14/14	25
1,1-Dichloroethene	U	0.010	0.025	mg/l		8260B	10/14/14	25
cis-1,2-Dichloroethene	U	0.0065	0.025	mg/l		8260B	10/14/14	25
trans-1,2-Dichloroethene	U	0.0099	0.025	mg/l		8260B	10/14/14	25
1,2-Dichloropropane	U	0.0076	0.025	mg/l		8260B	10/14/14	25
1,1-Dichloropropene	U	0.0088	0.025	mg/l		8260B	10/14/14	25
1,3-Dichloropropane	U	0.0092	0.025	mg/l		8260B	10/14/14	25
cis-1,3-Dichloropropene	U	0.010	0.025	mg/l		8260B	10/14/14	25
trans-1,3-Dichloropropene	U	0.010	0.025	mg/l		8260B	10/14/14	25
2,2-Dichloropropane	U	0.0080	0.025	mg/l		8260B	10/14/14	25
Di-isopropyl ether	U	0.0080	0.025	mg/l		8260B	10/14/14	25
Ethylbenzene	0.015	0.0096	0.025	mg/l	J	8260B	10/14/14	25
Hexachloro-1,3-butadiene	U	0.0064	0.025	mg/l		8260B	10/14/14	25
Isopropylbenzene	0.015	0.0082	0.025	mg/l	J	8260B	10/14/14	25

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-05

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW12_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 11:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.011	0.0088	0.025	mg/l	J	8260B	10/14/14	25
2-Butanone (MEK)	U	0.098	0.25	mg/l		8260B	10/14/14	25
Methylene Chloride	U	0.025	0.13	mg/l		8260B	10/14/14	25
4-Methyl-2-pentanone (MIBK)	U	0.054	0.25	mg/l		8260B	10/14/14	25
Methyl tert-butyl ether	U	0.0092	0.025	mg/l		8260B	10/14/14	25
Naphthalene	2.0	0.025	0.13	mg/l		8260B	10/14/14	25
n-Propylbenzene	U	0.0087	0.025	mg/l		8260B	10/14/14	25
Styrene	U	0.0077	0.025	mg/l		8260B	10/14/14	25
1,1,1,2-Tetrachloroethane	U	0.0096	0.025	mg/l		8260B	10/14/14	25
1,1,2,2-Tetrachloroethane	U	0.015	0.025	mg/l		8260B	10/14/14	25
1,1,2-Trichlorotrifluoroethane	U	0.0076	0.025	mg/l		8260B	10/14/14	25
Tetrachloroethene	U	0.0093	0.025	mg/l		8260B	10/14/14	25
Toluene	U	0.020	0.13	mg/l		8260B	10/14/14	25
1,2,3-Trichlorobenzene	U	0.0058	0.025	mg/l		8260B	10/14/14	25
1,2,4-Trichlorobenzene	U	0.0054	0.025	mg/l		8260B	10/14/14	25
1,1,1-Trichloroethane	U	0.0080	0.025	mg/l		8260B	10/14/14	25
1,1,2-Trichloroethane	U	0.0096	0.025	mg/l		8260B	10/14/14	25
Trichloroethene	U	0.010	0.025	mg/l		8260B	10/14/14	25
Trichlorofluoromethane	U	0.030	0.13	mg/l		8260B	10/14/14	25
1,2,3-Trichloropropane	U	0.020	0.063	mg/l		8260B	10/14/14	25
1,2,4-Trimethylbenzene	0.10	0.0093	0.025	mg/l		8260B	10/14/14	25
1,2,3-Trimethylbenzene	0.037	0.0080	0.025	mg/l		8260B	10/14/14	25
1,3,5-Trimethylbenzene	0.043	0.0097	0.025	mg/l		8260B	10/14/14	25
Vinyl chloride	U	0.0065	0.025	mg/l		8260B	10/14/14	25
Xylenes, Total	0.27	0.026	0.075	mg/l		8260B	10/14/14	25
Surrogate Recovery								
Toluene-d8	97.0			% Rec.		8260B	10/14/14	25
Dibromofluoromethane	95.8			% Rec.		8260B	10/14/14	25
4-Bromofluorobenzene	112.			% Rec.		8260B	10/14/14	25
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0079	0.0000076	0.000050	mg/l		8270C-S	10/17/14	1
Acenaphthene	0.10	0.00016	0.0010	mg/l		8270C-S	10/17/14	20
Acenaphthylene	0.021	0.0000068	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(a)anthracene	0.00046	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(a)pyrene	0.00016	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(b)fluoranthene	0.00014	0.000014	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(g,h,i)perylene	0.000042	0.000011	0.000050	mg/l	J	8270C-S	10/17/14	1
Benzo(k)fluoranthene	0.000034	0.000014	0.000050	mg/l	J	8270C-S	10/17/14	1
Chrysene	0.00042	0.000011	0.000050	mg/l		8270C-S	10/17/14	1
Dibenz(a,h)anthracene	0.0000063	0.0000040	0.000050	mg/l	J	8270C-S	10/17/14	1
Fluoranthene	0.0030	0.000016	0.000050	mg/l		8270C-S	10/17/14	1
Fluorene	0.041	0.0000085	0.000050	mg/l		8270C-S	10/17/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-05

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_MW12_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 11:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000034	0.000015	0.000050	mg/l	J	8270C-S	10/17/14	1
Naphthalene	0.0012	0.000020	0.00025	mg/l		8270C-S	10/17/14	1
Phenanthrene	0.0055	0.0000082	0.000050	mg/l		8270C-S	10/17/14	1
Pyrene	0.0035	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
1-Methylnaphthalene	0.27	0.00016	0.0050	mg/l		8270C-S	10/17/14	20
2-Methylnaphthalene	0.019	0.0000090	0.00025	mg/l		8270C-S	10/17/14	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	10/17/14	1
Surrogate Recovery								
Nitrobenzene-d5	112.			% Rec.		8270C-S	10/17/14	1
2-Fluorobiphenyl	75.1			% Rec.		8270C-S	10/17/14	1
p-Terphenyl-d14	95.7			% Rec.		8270C-S	10/17/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-06

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_FIELDDUP_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 11:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.25	1.3	mg/l		8260B	10/14/14	25
Acrolein	U	0.22	1.3	mg/l		8260B	10/14/14	25
Acrylonitrile	U	0.047	0.25	mg/l		8260B	10/14/14	25
Benzene	0.020	0.0083	0.025	mg/l	J	8260B	10/14/14	25
Bromobenzene	U	0.0088	0.025	mg/l		8260B	10/14/14	25
Bromodichloromethane	U	0.0095	0.025	mg/l		8260B	10/14/14	25
Bromoform	U	0.012	0.025	mg/l		8260B	10/14/14	25
Bromomethane	U	0.022	0.13	mg/l		8260B	10/14/14	25
n-Butylbenzene	U	0.0090	0.025	mg/l		8260B	10/14/14	25
sec-Butylbenzene	U	0.0091	0.025	mg/l		8260B	10/14/14	25
tert-Butylbenzene	U	0.010	0.025	mg/l		8260B	10/14/14	25
Carbon tetrachloride	U	0.0095	0.025	mg/l		8260B	10/14/14	25
Chlorobenzene	U	0.0087	0.025	mg/l		8260B	10/14/14	25
Chlorodibromomethane	U	0.0082	0.025	mg/l		8260B	10/14/14	25
Chloroethane	U	0.011	0.13	mg/l		8260B	10/14/14	25
2-Chloroethyl vinyl ether	U	0.075	1.3	mg/l		8260B	10/14/14	25
Chloroform	U	0.0081	0.13	mg/l		8260B	10/14/14	25
Chloromethane	U	0.0069	0.063	mg/l		8260B	10/14/14	25
2-Chlorotoluene	U	0.0094	0.025	mg/l		8260B	10/14/14	25
4-Chlorotoluene	U	0.0088	0.025	mg/l		8260B	10/14/14	25
1,2-Dibromo-3-Chloropropane	U	0.033	0.13	mg/l		8260B	10/14/14	25
1,2-Dibromoethane	U	0.0095	0.025	mg/l		8260B	10/14/14	25
Dibromomethane	U	0.0086	0.025	mg/l		8260B	10/14/14	25
1,2-Dichlorobenzene	U	0.0087	0.025	mg/l		8260B	10/14/14	25
1,3-Dichlorobenzene	U	0.0055	0.025	mg/l		8260B	10/14/14	25
1,4-Dichlorobenzene	U	0.0068	0.025	mg/l		8260B	10/14/14	25
Dichlorodifluoromethane	U	0.014	0.13	mg/l		8260B	10/14/14	25
1,1-Dichloroethane	U	0.0065	0.025	mg/l		8260B	10/14/14	25
1,2-Dichloroethane	U	0.0090	0.025	mg/l		8260B	10/14/14	25
1,1-Dichloroethene	U	0.010	0.025	mg/l		8260B	10/14/14	25
cis-1,2-Dichloroethene	U	0.0065	0.025	mg/l		8260B	10/14/14	25
trans-1,2-Dichloroethene	U	0.0099	0.025	mg/l		8260B	10/14/14	25
1,2-Dichloropropane	U	0.0076	0.025	mg/l		8260B	10/14/14	25
1,1-Dichloropropene	U	0.0088	0.025	mg/l		8260B	10/14/14	25
1,3-Dichloropropane	U	0.0092	0.025	mg/l		8260B	10/14/14	25
cis-1,3-Dichloropropene	U	0.010	0.025	mg/l		8260B	10/14/14	25
trans-1,3-Dichloropropene	U	0.010	0.025	mg/l		8260B	10/14/14	25
2,2-Dichloropropane	U	0.0080	0.025	mg/l		8260B	10/14/14	25
Di-isopropyl ether	U	0.0080	0.025	mg/l		8260B	10/14/14	25
Ethylbenzene	0.014	0.0096	0.025	mg/l	J	8260B	10/14/14	25
Hexachloro-1,3-butadiene	U	0.0064	0.025	mg/l		8260B	10/14/14	25
Isopropylbenzene	0.014	0.0082	0.025	mg/l	J	8260B	10/14/14	25

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-06

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_FIELDDUP_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 11:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.0088	0.025	mg/l		8260B	10/14/14	25
2-Butanone (MEK)	U	0.098	0.25	mg/l		8260B	10/14/14	25
Methylene Chloride	U	0.025	0.13	mg/l		8260B	10/14/14	25
4-Methyl-2-pentanone (MIBK)	U	0.054	0.25	mg/l		8260B	10/14/14	25
Methyl tert-butyl ether	U	0.0092	0.025	mg/l		8260B	10/14/14	25
Naphthalene	2.4	0.025	0.13	mg/l		8260B	10/14/14	25
n-Propylbenzene	U	0.0087	0.025	mg/l		8260B	10/14/14	25
Styrene	U	0.0077	0.025	mg/l		8260B	10/14/14	25
1,1,1,2-Tetrachloroethane	U	0.0096	0.025	mg/l		8260B	10/14/14	25
1,1,2,2-Tetrachloroethane	U	0.015	0.025	mg/l		8260B	10/14/14	25
1,1,2-Trichlorotrifluoroethane	U	0.0076	0.025	mg/l		8260B	10/14/14	25
Tetrachloroethene	U	0.0093	0.025	mg/l		8260B	10/14/14	25
Toluene	U	0.020	0.13	mg/l		8260B	10/14/14	25
1,2,3-Trichlorobenzene	U	0.0058	0.025	mg/l		8260B	10/14/14	25
1,2,4-Trichlorobenzene	U	0.0054	0.025	mg/l		8260B	10/14/14	25
1,1,1-Trichloroethane	U	0.0080	0.025	mg/l		8260B	10/14/14	25
1,1,2-Trichloroethane	U	0.0096	0.025	mg/l		8260B	10/14/14	25
Trichloroethene	U	0.010	0.025	mg/l		8260B	10/14/14	25
Trichlorofluoromethane	U	0.030	0.13	mg/l		8260B	10/14/14	25
1,2,3-Trichloropropane	U	0.020	0.063	mg/l		8260B	10/14/14	25
1,2,4-Trimethylbenzene	0.10	0.0093	0.025	mg/l		8260B	10/14/14	25
1,2,3-Trimethylbenzene	0.041	0.0080	0.025	mg/l		8260B	10/14/14	25
1,3,5-Trimethylbenzene	0.040	0.0097	0.025	mg/l		8260B	10/14/14	25
Vinyl chloride	U	0.0065	0.025	mg/l		8260B	10/14/14	25
Xylenes, Total	0.29	0.026	0.075	mg/l		8260B	10/14/14	25
Surrogate Recovery								
Toluene-d8	98.6			% Rec.		8260B	10/14/14	25
Dibromofluoromethane	97.7			% Rec.		8260B	10/14/14	25
4-Bromofluorobenzene	100.			% Rec.		8260B	10/14/14	25
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0098	0.0000076	0.000050	mg/l		8270C-S	10/17/14	1
Acenaphthene	0.13	0.00016	0.0010	mg/l		8270C-S	10/17/14	20
Acenaphthylene	0.028	0.0000068	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(a)anthracene	0.0012	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(a)pyrene	0.00071	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(b)fluoranthene	0.00057	0.000014	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(g,h,i)perylene	0.00025	0.000011	0.000050	mg/l		8270C-S	10/17/14	1
Benzo(k)fluoranthene	0.00016	0.000014	0.000050	mg/l		8270C-S	10/17/14	1
Chrysene	0.0011	0.000011	0.000050	mg/l		8270C-S	10/17/14	1
Dibenz(a,h)anthracene	0.000038	0.0000040	0.000050	mg/l	J	8270C-S	10/17/14	1
Fluoranthene	0.0042	0.000016	0.000050	mg/l		8270C-S	10/17/14	1
Fluorene	0.052	0.0000085	0.000050	mg/l		8270C-S	10/17/14	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

October 17, 2014

ESC Sample # : L727166-06

Date Received : October 11, 2014
Description : 13th Street Plaza

Site ID : 13TH STREET PLAZA

Sample ID : COB_FIELDDUP_101014

Project # : 5047-RC-C100

Collected By : Branson Fields
Collection Date : 10/10/14 11:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.00020	0.000015	0.000050	mg/l		8270C-S	10/17/14	1
Naphthalene	0.0091	0.000020	0.00025	mg/l		8270C-S	10/17/14	1
Phenanthrene	0.022	0.0000082	0.000050	mg/l		8270C-S	10/17/14	1
Pyrene	0.0050	0.000012	0.000050	mg/l		8270C-S	10/17/14	1
1-Methylnaphthalene	0.42	0.00016	0.0050	mg/l		8270C-S	10/17/14	20
2-Methylnaphthalene	0.077	0.0000090	0.00025	mg/l		8270C-S	10/17/14	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	10/17/14	1
Surrogate Recovery								
Nitrobenzene-d5	106.			% Rec.		8270C-S	10/17/14	1
2-Fluorobiphenyl	72.4			% Rec.		8270C-S	10/17/14	1
p-Terphenyl-d14	95.6			% Rec.		8270C-S	10/17/14	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L727166-01	WG748136	SAMP	p-Isopropyltoluene	R2998109	J
	WG748136	SAMP	Toluene	R2998109	J
	WG748572	SAMP	Nitrobenzene-d5	R2998347	J7
L727166-02	WG748136	SAMP	Acetone	R2998109	J
	WG748136	SAMP	2-Chloroethyl vinyl ether	R2998109	J3
	WG748136	SAMP	Naphthalene	R2998109	J
	WG748136	SAMP	1,2,4-Trimethylbenzene	R2998109	J
	WG748136	SAMP	1,2,3-Trimethylbenzene	R2998109	J
L727166-03	WG748136	SAMP	p-Isopropyltoluene	R2998109	J
	WG748572	SAMP	Benzo(a)pyrene	R2998256	J
	WG748572	SAMP	Benzo(b)fluoranthene	R2998256	J
	WG748572	SAMP	Benzo(g,h,i)perylene	R2998256	J
	WG748572	SAMP	Benzo(k)fluoranthene	R2998256	J
	WG748572	SAMP	Naphthalene	R2998256	J
	WG748572	SAMP	Phenanthrene	R2998256	J
	WG748572	SAMP	2-Methylnaphthalene	R2998256	J
L727166-04	WG748136	SAMP	Isopropylbenzene	R2998109	J
	WG748136	SAMP	p-Isopropyltoluene	R2998109	J
	WG748572	SAMP	Dibenz(a,h)anthracene	R2998256	J
	WG748572	SAMP	2-Methylnaphthalene	R2998256	J
L727166-05	WG748136	SAMP	Benzene	R2998109	J
	WG748136	SAMP	Ethylbenzene	R2998109	J
	WG748136	SAMP	Isopropylbenzene	R2998109	J
	WG748136	SAMP	p-Isopropyltoluene	R2998109	J
	WG748572	SAMP	Benzo(g,h,i)perylene	R2998256	J
	WG748572	SAMP	Benzo(k)fluoranthene	R2998256	J
	WG748572	SAMP	Dibenz(a,h)anthracene	R2998256	J
	WG748572	SAMP	Indeno(1,2,3-cd)pyrene	R2998256	J
L727166-06	WG748136	SAMP	Benzene	R2998109	J
	WG748136	SAMP	Ethylbenzene	R2998109	J
	WG748136	SAMP	Isopropylbenzene	R2998109	J
	WG748572	SAMP	Dibenz(a,h)anthracene	R2998256	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
10/17/14 at 16:14:57

TSR Signing Reports: 296
R5 - Desired TAT

Sample: L727166-01 Account: USAENVGCO Received: 10/11/14 09:00 Due Date: 10/17/14 00:00 RPT Date: 10/17/14 16:14

Sample: L727166-02 Account: USAENVGCO Received: 10/11/14 09:00 Due Date: 10/17/14 00:00 RPT Date: 10/17/14 16:14

Sample: L727166-03 Account: USAENVGCO Received: 10/11/14 09:00 Due Date: 10/17/14 00:00 RPT Date: 10/17/14 16:14

Sample: L727166-04 Account: USAENVGCO Received: 10/11/14 09:00 Due Date: 10/17/14 00:00 RPT Date: 10/17/14 16:14

Sample: L727166-05 Account: USAENVGCO Received: 10/11/14 09:00 Due Date: 10/17/14 00:00 RPT Date: 10/17/14 16:14

Sample: L727166-06 Account: USAENVGCO Received: 10/11/14 09:00 Due Date: 10/17/14 00:00 RPT Date: 10/17/14 16:14

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Craig Lugowski
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

Quality Assurance Report
Level II

L727166

October 17, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG748136	10/14/14 12:56
1,1,1-Trichloroethane	< .001	mg/l			WG748136	10/14/14 12:56
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG748136	10/14/14 12:56
1,1,2-Trichloroethane	< .001	mg/l			WG748136	10/14/14 12:56
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG748136	10/14/14 12:56
1,1-Dichloroethane	< .001	mg/l			WG748136	10/14/14 12:56
1,1-Dichloroethene	< .001	mg/l			WG748136	10/14/14 12:56
1,1-Dichloropropene	< .001	mg/l			WG748136	10/14/14 12:56
1,2,3-Trichlorobenzene	< .001	mg/l			WG748136	10/14/14 12:56
1,2,3-Trichloropropane	< .001	mg/l			WG748136	10/14/14 12:56
1,2,3-Trimethylbenzene	< .001	mg/l			WG748136	10/14/14 12:56
1,2,4-Trichlorobenzene	< .001	mg/l			WG748136	10/14/14 12:56
1,2,4-Trimethylbenzene	< .001	mg/l			WG748136	10/14/14 12:56
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG748136	10/14/14 12:56
1,2-Dibromoethane	< .001	mg/l			WG748136	10/14/14 12:56
1,2-Dichlorobenzene	< .001	mg/l			WG748136	10/14/14 12:56
1,2-Dichloroethane	< .001	mg/l			WG748136	10/14/14 12:56
1,2-Dichloropropane	< .001	mg/l			WG748136	10/14/14 12:56
1,3,5-Trimethylbenzene	< .001	mg/l			WG748136	10/14/14 12:56
1,3-Dichlorobenzene	< .001	mg/l			WG748136	10/14/14 12:56
1,3-Dichloropropane	< .001	mg/l			WG748136	10/14/14 12:56
1,4-Dichlorobenzene	< .001	mg/l			WG748136	10/14/14 12:56
2,2-Dichloropropane	< .001	mg/l			WG748136	10/14/14 12:56
2-Butanone (MEK)	< .01	mg/l			WG748136	10/14/14 12:56
2-Chloroethyl vinyl ether	< .05	mg/l			WG748136	10/14/14 12:56
2-Chlorotoluene	< .001	mg/l			WG748136	10/14/14 12:56
4-Chlorotoluene	< .001	mg/l			WG748136	10/14/14 12:56
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG748136	10/14/14 12:56
Acetone	< .05	mg/l			WG748136	10/14/14 12:56
Acrolein	< .025	mg/l			WG748136	10/14/14 12:56
Acrylonitrile	< .01	mg/l			WG748136	10/14/14 12:56
Benzene	< .001	mg/l			WG748136	10/14/14 12:56
Bromobenzene	< .001	mg/l			WG748136	10/14/14 12:56
Bromodichloromethane	< .001	mg/l			WG748136	10/14/14 12:56
Bromoform	< .001	mg/l			WG748136	10/14/14 12:56
Bromomethane	< .005	mg/l			WG748136	10/14/14 12:56
Carbon tetrachloride	< .001	mg/l			WG748136	10/14/14 12:56
Chlorobenzene	< .001	mg/l			WG748136	10/14/14 12:56
Chlorodibromomethane	< .001	mg/l			WG748136	10/14/14 12:56
Chloroethane	< .005	mg/l			WG748136	10/14/14 12:56
Chloroform	< .005	mg/l			WG748136	10/14/14 12:56
Chloromethane	< .0025	mg/l			WG748136	10/14/14 12:56
cis-1,2-Dichloroethene	< .001	mg/l			WG748136	10/14/14 12:56
cis-1,3-Dichloropropene	< .001	mg/l			WG748136	10/14/14 12:56
Di-isopropyl ether	< .001	mg/l			WG748136	10/14/14 12:56
Dibromomethane	< .001	mg/l			WG748136	10/14/14 12:56
Dichlorodifluoromethane	< .005	mg/l			WG748136	10/14/14 12:56
Ethylbenzene	< .001	mg/l			WG748136	10/14/14 12:56
Hexachloro-1,3-butadiene	< .001	mg/l			WG748136	10/14/14 12:56
Isopropylbenzene	< .001	mg/l			WG748136	10/14/14 12:56
Methyl tert-butyl ether	< .001	mg/l			WG748136	10/14/14 12:56
Methylene Chloride	< .005	mg/l			WG748136	10/14/14 12:56
n-Butylbenzene	< .001	mg/l			WG748136	10/14/14 12:56
n-Propylbenzene	< .001	mg/l			WG748136	10/14/14 12:56
Naphthalene	< .005	mg/l			WG748136	10/14/14 12:56
p-Isopropyltoluene	< .001	mg/l			WG748136	10/14/14 12:56
sec-Butylbenzene	< .001	mg/l			WG748136	10/14/14 12:56
Styrene	< .001	mg/l			WG748136	10/14/14 12:56
tert-Butylbenzene	< .001	mg/l			WG748136	10/14/14 12:56

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L727166

October 17, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Tetrachloroethene	< .001	mg/l			WG748136	10/14/14 12:56
Toluene	< .005	mg/l			WG748136	10/14/14 12:56
trans-1,2-Dichloroethene	< .001	mg/l			WG748136	10/14/14 12:56
trans-1,3-Dichloropropene	< .001	mg/l			WG748136	10/14/14 12:56
Trichloroethene	< .001	mg/l			WG748136	10/14/14 12:56
Trichlorofluoromethane	< .005	mg/l			WG748136	10/14/14 12:56
Vinyl chloride	< .001	mg/l			WG748136	10/14/14 12:56
Xylenes, Total	< .003	mg/l			WG748136	10/14/14 12:56
4-Bromofluorobenzene		% Rec.	107.0	71-126	WG748136	10/14/14 12:56
Dibromofluoromethane		% Rec.	96.10	78.3-121	WG748136	10/14/14 12:56
Toluene-d8		% Rec.	99.50	88.5-111	WG748136	10/14/14 12:56
1-Methylnaphthalene	< .00025	mg/l			WG748572	10/17/14 00:28
2-Chloronaphthalene	< .00005	mg/l			WG748572	10/17/14 00:28
2-Methylnaphthalene	< .00025	mg/l			WG748572	10/17/14 00:28
Acenaphthene	< .00005	mg/l			WG748572	10/17/14 00:28
Acenaphthylene	< .00005	mg/l			WG748572	10/17/14 00:28
Anthracene	< .00005	mg/l			WG748572	10/17/14 00:28
Benzo(a)anthracene	< .00005	mg/l			WG748572	10/17/14 00:28
Benzo(a)pyrene	< .00005	mg/l			WG748572	10/17/14 00:28
Benzo(b)fluoranthene	< .00005	mg/l			WG748572	10/17/14 00:28
Benzo(g,h,i)perylene	< .00005	mg/l			WG748572	10/17/14 00:28
Benzo(k)fluoranthene	< .00005	mg/l			WG748572	10/17/14 00:28
Chrysene	< .00005	mg/l			WG748572	10/17/14 00:28
Dibenz(a,h)anthracene	< .00005	mg/l			WG748572	10/17/14 00:28
Fluoranthene	< .00005	mg/l			WG748572	10/17/14 00:28
Fluorene	< .00005	mg/l			WG748572	10/17/14 00:28
Indeno(1,2,3-cd)pyrene	< .00005	mg/l			WG748572	10/17/14 00:28
Naphthalene	< .00025	mg/l			WG748572	10/17/14 00:28
Phenanthrene	< .00005	mg/l			WG748572	10/17/14 00:28
Pyrene	< .00005	mg/l			WG748572	10/17/14 00:28
2-Fluorobiphenyl		% Rec.	104.0	57.7-153	WG748572	10/17/14 00:28
Nitrobenzene-d5		% Rec.	101.0	45.1-170	WG748572	10/17/14 00:28
p-Terphenyl-d14		% Rec.	104.0	53.2-156	WG748572	10/17/14 00:28

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0240	95.8	74.2-124	WG748136
1,1,1-Trichloroethane	mg/l	.025	0.0223	89.1	73.2-123	WG748136
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0246	98.3	70.7-122	WG748136
1,1,2-Trichloroethane	mg/l	.025	0.0213	85.4	77.7-118	WG748136
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0185	74.1	67.2-143	WG748136
1,1-Dichloroethane	mg/l	.025	0.0217	86.7	70.7-126	WG748136
1,1-Dichloroethene	mg/l	.025	0.0219	87.6	67.8-129	WG748136
1,1-Dichloropropene	mg/l	.025	0.0219	87.6	73.1-125	WG748136
1,2,3-Trichlorobenzene	mg/l	.025	0.0244	97.5	64.9-135	WG748136
1,2,3-Trichloropropane	mg/l	.025	0.0253	101.	71.8-121	WG748136
1,2,3-Trimethylbenzene	mg/l	.025	0.0214	85.6	72.3-116	WG748136
1,2,4-Trichlorobenzene	mg/l	.025	0.0234	93.5	69.7-136	WG748136
1,2,4-Trimethylbenzene	mg/l	.025	0.0234	93.8	75-123	WG748136
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0206	82.4	65.4-128	WG748136
1,2-Dibromoethane	mg/l	.025	0.0230	91.8	76.6-121	WG748136
1,2-Dichlorobenzene	mg/l	.025	0.0235	94.0	78.4-117	WG748136
1,2-Dichloroethane	mg/l	.025	0.0206	82.4	68.8-124	WG748136
1,2-Dichloropropane	mg/l	.025	0.0218	87.0	76.5-119	WG748136
1,3,5-Trimethylbenzene	mg/l	.025	0.0246	98.5	75.6-124	WG748136
1,3-Dichlorobenzene	mg/l	.025	0.0248	99.2	70.8-128	WG748136

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Quality Assurance Report
Level II

L727166

October 17, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,3-Dichloropropane	mg/l	.025	0.0217	87.0	77.4-117	WG748136
1,4-Dichlorobenzene	mg/l	.025	0.0223	89.1	78.8-115	WG748136
2,2-Dichloropropane	mg/l	.025	0.0215	85.9	62.4-133	WG748136
2-Butanone (MEK)	mg/l	.125	0.111	88.7	55-149	WG748136
2-Chloroethyl vinyl ether	mg/l	.125	0.109	87.2	43.8-150	WG748136
2-Chlorotoluene	mg/l	.025	0.0244	97.5	74.7-122	WG748136
4-Chlorotoluene	mg/l	.025	0.0228	91.3	77.5-120	WG748136
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.106	84.9	70.5-133	WG748136
Acetone	mg/l	.125	0.129	103.	35.6-163	WG748136
Acrolein	mg/l	.125	0.106	84.5	10-190	WG748136
Acrylonitrile	mg/l	.125	0.0980	78.4	55.2-130	WG748136
Benzene	mg/l	.025	0.0216	86.4	74.8-121	WG748136
Bromobenzene	mg/l	.025	0.0229	91.4	77.5-116	WG748136
Bromodichloromethane	mg/l	.025	0.0215	86.2	75.1-116	WG748136
Bromoform	mg/l	.025	0.0250	100.	67.5-130	WG748136
Bromomethane	mg/l	.025	0.0283	113.	49.9-162	WG748136
Carbon tetrachloride	mg/l	.025	0.0227	91.0	70.2-123	WG748136
Chlorobenzene	mg/l	.025	0.0240	96.2	78.1-119	WG748136
Chlorodibromomethane	mg/l	.025	0.0218	87.4	74-121	WG748136
Chloroethane	mg/l	.025	0.0226	90.6	61.7-135	WG748136
Chloroform	mg/l	.025	0.0224	89.6	76-121	WG748136
Chloromethane	mg/l	.025	0.0197	78.9	61.5-129	WG748136
cis-1,2-Dichloroethene	mg/l	.025	0.0219	87.5	76-119	WG748136
cis-1,3-Dichloropropene	mg/l	.025	0.0208	83.3	78.2-120	WG748136
Di-isopropyl ether	mg/l	.025	0.0209	83.8	65.6-132	WG748136
Dibromomethane	mg/l	.025	0.0203	81.1	79.5-118	WG748136
Dichlorodifluoromethane	mg/l	.025	0.0235	94.1	54.8-135	WG748136
Ethylbenzene	mg/l	.025	0.0244	97.4	78.8-122	WG748136
Hexachloro-1,3-butadiene	mg/l	.025	0.0234	93.6	64.7-129	WG748136
Isopropylbenzene	mg/l	.025	0.0240	95.9	78.6-132	WG748136
Methyl tert-butyl ether	mg/l	.025	0.0205	82.1	71.2-126	WG748136
Methylene Chloride	mg/l	.025	0.0209	83.5	70.3-120	WG748136
n-Butylbenzene	mg/l	.025	0.0230	92.0	76.2-126	WG748136
n-Propylbenzene	mg/l	.025	0.0244	97.8	78.2-122	WG748136
Naphthalene	mg/l	.025	0.0215	86.1	68.4-128	WG748136
p-Isopropyltoluene	mg/l	.025	0.0250	99.9	74-131	WG748136
sec-Butylbenzene	mg/l	.025	0.0246	98.2	74.4-127	WG748136
Styrene	mg/l	.025	0.0240	95.8	80.4-126	WG748136
tert-Butylbenzene	mg/l	.025	0.0252	101.	75.3-126	WG748136
Tetrachloroethene	mg/l	.025	0.0254	101.	72.6-126	WG748136
Toluene	mg/l	.025	0.0217	86.6	79.7-116	WG748136
trans-1,2-Dichloroethene	mg/l	.025	0.0224	89.7	72.6-121	WG748136
trans-1,3-Dichloropropene	mg/l	.025	0.0214	85.5	74.3-123	WG748136
Trichloroethene	mg/l	.025	0.0224	89.5	77.7-118	WG748136
Trichlorofluoromethane	mg/l	.025	0.0230	92.1	63.5-135	WG748136
Vinyl chloride	mg/l	.025	0.0223	89.2	65.9-128	WG748136
Xylenes, Total	mg/l	.075	0.0701	93.5	78.7-121	WG748136
4-Bromofluorobenzene				98.00	71-126	WG748136
Dibromofluoromethane				92.50	78.3-121	WG748136
Toluene-d8				97.70	88.5-111	WG748136
1-Methylnaphthalene	mg/l	.002	0.00223	111.	73.2-141	WG748572
2-Chloronaphthalene	mg/l	.002	0.00222	111.	74.2-135	WG748572
2-Methylnaphthalene	mg/l	.002	0.00220	110.	72.4-141	WG748572
Acenaphthene	mg/l	.002	0.00225	112.	76.2-136	WG748572
Acenaphthylene	mg/l	.002	0.00207	103.	71.3-139	WG748572
Anthracene	mg/l	.002	0.00222	111.	77.3-144	WG748572
Benzo(a)anthracene	mg/l	.002	0.00207	104.	71.4-142	WG748572

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Quality Assurance Report
Level II

L727166

October 17, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Benzo(a)pyrene	mg/l	.002	0.00207	103.	70.8-140	WG748572
Benzo(b)fluoranthene	mg/l	.002	0.00211	106.	68-142	WG748572
Benzo(g,h,i)perylene	mg/l	.002	0.00217	109.	62.8-146	WG748572
Benzo(k)fluoranthene	mg/l	.002	0.00230	115.	70.1-144	WG748572
Chrysene	mg/l	.002	0.00228	114.	73.6-143	WG748572
Dibenz(a,h)anthracene	mg/l	.002	0.00213	106.	56.1-147	WG748572
Fluoranthene	mg/l	.002	0.00218	109.	77.9-147	WG748572
Fluorene	mg/l	.002	0.00219	110.	75.3-136	WG748572
Indeno(1,2,3-cd)pyrene	mg/l	.002	0.00216	108.	61.6-147	WG748572
Naphthalene	mg/l	.002	0.00222	111.	72.2-137	WG748572
Phenanthrene	mg/l	.002	0.00225	112.	76-133	WG748572
Pyrene	mg/l	.002	0.00220	110.	73-139	WG748572
2-Fluorobiphenyl				99.90	57.7-153	WG748572
Nitrobenzene-d5				97.30	45.1-170	WG748572
p-Terphenyl-d14				94.70	53.2-156	WG748572

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0243	0.0240	97.0	74.2-124	1.56	20	WG748136
1,1,1-Trichloroethane	mg/l	0.0219	0.0223	88.0	73.2-123	1.58	20	WG748136
1,1,2,2-Tetrachloroethane	mg/l	0.0255	0.0246	102.	70.7-122	3.63	20	WG748136
1,1,2-Trichloroethane	mg/l	0.0248	0.0213	99.0	77.7-118	15.1	20	WG748136
1,1,2-Trichlorotrifluoroethane	mg/l	0.0203	0.0185	81.0	67.2-143	9.32	20	WG748136
1,1-Dichloroethane	mg/l	0.0210	0.0217	84.0	70.7-126	2.91	20	WG748136
1,1-Dichloroethene	mg/l	0.0214	0.0219	86.0	67.8-129	2.44	20	WG748136
1,1-Dichloropropene	mg/l	0.0208	0.0219	83.0	73.1-125	5.00	20	WG748136
1,2,3-Trichlorobenzene	mg/l	0.0230	0.0244	92.0	64.9-135	5.83	20	WG748136
1,2,3-Trichloropropane	mg/l	0.0258	0.0253	103.	71.8-121	1.87	20	WG748136
1,2,3-Trimethylbenzene	mg/l	0.0217	0.0214	87.0	72.3-116	1.35	20	WG748136
1,2,4-Trichlorobenzene	mg/l	0.0242	0.0234	97.0	69.7-136	3.61	20	WG748136
1,2,4-Trimethylbenzene	mg/l	0.0247	0.0234	99.0	75-123	5.31	20	WG748136
1,2-Dibromo-3-Chloropropane	mg/l	0.0205	0.0206	82.0	65.4-128	0.390	20	WG748136
1,2-Dibromoethane	mg/l	0.0232	0.0230	93.0	76.6-121	1.16	20	WG748136
1,2-Dichlorobenzene	mg/l	0.0237	0.0235	95.0	78.4-117	0.940	20	WG748136
1,2-Dichloroethane	mg/l	0.0206	0.0206	82.0	68.8-124	0.180	20	WG748136
1,2-Dichloropropane	mg/l	0.0207	0.0218	83.0	76.5-119	5.11	20	WG748136
1,3,5-Trimethylbenzene	mg/l	0.0257	0.0246	103.	75.6-124	4.08	20	WG748136
1,3-Dichlorobenzene	mg/l	0.0262	0.0248	105.	70.8-128	5.53	20	WG748136
1,3-Dichloropropane	mg/l	0.0233	0.0217	93.0	77.4-117	6.92	20	WG748136
1,4-Dichlorobenzene	mg/l	0.0221	0.0223	88.0	78.8-115	0.830	20	WG748136
2,2-Dichloropropane	mg/l	0.0211	0.0215	84.0	62.4-133	1.94	20	WG748136
2-Butanone (MEK)	mg/l	0.107	0.111	85.0	55-149	3.75	20	WG748136
2-Chloroethyl vinyl ether	mg/l	0.107	0.109	85.0	43.8-150	2.03	20	WG748136
2-Chlorotoluene	mg/l	0.0253	0.0244	101.	74.7-122	3.88	20	WG748136
4-Chlorotoluene	mg/l	0.0249	0.0228	99.0	77.5-120	8.58	20	WG748136
4-Methyl-2-pentanone (MIBK)	mg/l	0.110	0.106	88.0	70.5-133	3.08	20	WG748136
Acetone	mg/l	0.117	0.129	93.0	35.6-163	10.4	23.9	WG748136
Acrolein	mg/l	0.108	0.106	87.0	10-190	2.60	28.1	WG748136
Acrylonitrile	mg/l	0.0993	0.0980	79.0	55.2-130	1.33	20	WG748136
Benzene	mg/l	0.0210	0.0216	84.0	74.8-121	2.72	20	WG748136
Bromobenzene	mg/l	0.0242	0.0229	97.0	77.5-116	5.63	20	WG748136
Bromodichloromethane	mg/l	0.0219	0.0215	88.0	75.1-116	1.70	20	WG748136
Bromoform	mg/l	0.0257	0.0250	103.	67.5-130	2.69	20	WG748136
Bromomethane	mg/l	0.0281	0.0283	112.	49.9-162	0.820	20	WG748136
Carbon tetrachloride	mg/l	0.0217	0.0227	87.0	70.2-123	4.81	20	WG748136
Chlorobenzene	mg/l	0.0247	0.0240	99.0	78.1-119	2.59	20	WG748136
Chlorodibromomethane	mg/l	0.0226	0.0218	90.0	74-121	3.56	20	WG748136
Chloroethane	mg/l	0.0222	0.0226	89.0	61.7-135	2.07	20	WG748136

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Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Chloroform	mg/l	0.0219	0.0224	87.0	76-121	2.44	20	WG748136
Chloromethane	mg/l	0.0198	0.0197	79.0	61.5-129	0.330	20	WG748136
cis-1,2-Dichloroethene	mg/l	0.0212	0.0219	85.0	76-119	2.97	20	WG748136
cis-1,3-Dichloropropene	mg/l	0.0209	0.0208	84.0	78.2-120	0.420	20	WG748136
Di-isopropyl ether	mg/l	0.0207	0.0209	83.0	65.6-132	1.22	20	WG748136
Dibromomethane	mg/l	0.0224	0.0203	89.0	79.5-118	9.71	20	WG748136
Dichlorodifluoromethane	mg/l	0.0228	0.0235	91.0	54.8-135	2.99	20	WG748136
Ethylbenzene	mg/l	0.0240	0.0244	96.0	78.8-122	1.68	20	WG748136
Hexachloro-1,3-butadiene	mg/l	0.0224	0.0234	89.0	64.7-129	4.52	20	WG748136
Isopropylbenzene	mg/l	0.0248	0.0240	99.0	78.6-132	3.47	20	WG748136
Methyl tert-butyl ether	mg/l	0.0209	0.0205	84.0	71.2-126	1.83	20	WG748136
Methylene Chloride	mg/l	0.0200	0.0209	80.0	70.3-120	4.31	20	WG748136
n-Butylbenzene	mg/l	0.0229	0.0230	92.0	76.2-126	0.560	20	WG748136
n-Propylbenzene	mg/l	0.0254	0.0244	102.	78.2-122	3.81	20	WG748136
Naphthalene	mg/l	0.0223	0.0215	89.0	68.4-128	3.57	20	WG748136
p-Isopropyltoluene	mg/l	0.0267	0.0250	107.	74-131	6.71	20	WG748136
sec-Butylbenzene	mg/l	0.0259	0.0246	104.	74.4-127	5.33	20	WG748136
Styrene	mg/l	0.0249	0.0240	100.	80.4-126	3.85	20	WG748136
tert-Butylbenzene	mg/l	0.0264	0.0252	106.	75.3-126	4.67	20	WG748136
Tetrachloroethene	mg/l	0.0261	0.0254	104.	72.6-126	2.99	20	WG748136
Toluene	mg/l	0.0219	0.0217	87.0	79.7-116	0.960	20	WG748136
trans-1,2-Dichloroethene	mg/l	0.0217	0.0224	87.0	72.6-121	3.15	20	WG748136
trans-1,3-Dichloropropene	mg/l	0.0229	0.0214	91.0	74.3-123	6.69	20	WG748136
Trichloroethene	mg/l	0.0220	0.0224	88.0	77.7-118	1.49	20	WG748136
Trichlorofluoromethane	mg/l	0.0225	0.0230	90.0	63.5-135	2.27	20	WG748136
Vinyl chloride	mg/l	0.0215	0.0223	86.0	65.9-128	3.49	20	WG748136
Xylenes, Total	mg/l	0.0723	0.0701	96.0	78.7-121	3.10	20	WG748136
4-Bromofluorobenzene				106.0	71-126			WG748136
Dibromofluoromethane				91.20	78.3-121			WG748136
Toluene-d8				99.40	88.5-111			WG748136
1-Methylnaphthalene	mg/l	0.00224	0.00223	112.	73.2-141	0.700	20	WG748572
2-Chloronaphthalene	mg/l	0.00221	0.00222	110.	74.2-135	0.550	20	WG748572
2-Methylnaphthalene	mg/l	0.00220	0.00220	110.	72.4-141	0.0500	20	WG748572
Acenaphthene	mg/l	0.00221	0.00225	110.	76.2-136	1.71	20	WG748572
Acenaphthylene	mg/l	0.00206	0.00207	103.	71.3-139	0.370	20	WG748572
Anthracene	mg/l	0.00221	0.00222	110.	77.3-144	0.530	20	WG748572
Benzo(a)anthracene	mg/l	0.00205	0.00207	102.	71.4-142	1.11	20	WG748572
Benzo(a)pyrene	mg/l	0.00214	0.00207	107.	70.8-140	3.45	20	WG748572
Benzo(b)fluoranthene	mg/l	0.00214	0.00211	107.	68-142	1.19	20	WG748572
Benzo(g,h,i)perylene	mg/l	0.00215	0.00217	108.	62.8-146	0.900	20	WG748572
Benzo(k)fluoranthene	mg/l	0.00226	0.00230	113.	70.1-144	1.81	20	WG748572
Chrysene	mg/l	0.00226	0.00228	113.	73.6-143	0.960	20	WG748572
Dibenz(a,h)anthracene	mg/l	0.00210	0.00213	105.	56.1-147	1.59	20	WG748572
Fluoranthene	mg/l	0.00216	0.00218	108.	77.9-147	0.960	20	WG748572
Fluorene	mg/l	0.00218	0.00219	109.	75.3-136	0.440	20	WG748572
Indeno(1,2,3-cd)pyrene	mg/l	0.00213	0.00216	106.	61.6-147	1.65	20	WG748572
Naphthalene	mg/l	0.00218	0.00222	109.	72.2-137	1.84	20	WG748572
Phenanthrene	mg/l	0.00224	0.00225	112.	76-133	0.210	20	WG748572
Pyrene	mg/l	0.00224	0.00220	112.	73-139	1.69	20	WG748572
2-Fluorobiphenyl				99.30	57.7-153			WG748572
Nitrobenzene-d5				94.50	45.1-170			WG748572
p-Terphenyl-d14				97.60	53.2-156			WG748572

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0243	0.0	.025	97.0	64-128	L727166-02	WG748136

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L727166

October 17, 2014

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/l	0.0210	0.0	.025	84.0	58.7-134	L727166-02	WG748136
1,1,2,2-Tetrachloroethane	mg/l	0.0269	0.0	.025	110.	56-132	L727166-02	WG748136
1,1,2-Trichloroethane	mg/l	0.0248	0.0	.025	99.0	66.3-125	L727166-02	WG748136
1,1,2-Trichlorotrifluoroethane	mg/l	0.0166	0.0	.025	66.0	54.8-154	L727166-02	WG748136
1,1-Dichloroethane	mg/l	0.0207	0.0	.025	83.0	58.5-132	L727166-02	WG748136
1,1-Dichloroethene	mg/l	0.0200	0.0	.025	80.0	51.1-140	L727166-02	WG748136
1,1-Dichloropropene	mg/l	0.0196	0.0	.025	78.0	57.3-136	L727166-02	WG748136
1,2,3-Trichlorobenzene	mg/l	0.0252	0.0	.025	100.	59.1-138	L727166-02	WG748136
1,2,3-Trichloropropane	mg/l	0.0298	0.0	.025	120.	61.4-128	L727166-02	WG748136
1,2,3-Trimethylbenzene	mg/l	0.0224	0.000399	.025	88.0	61.3-122	L727166-02	WG748136
1,2,4-Trichlorobenzene	mg/l	0.0266	0.0	.025	110.	63.6-143	L727166-02	WG748136
1,2,4-Trimethylbenzene	mg/l	0.0237	0.000926	.025	91.0	57.4-137	L727166-02	WG748136
1,2-Dibromo-3-Chloropropane	mg/l	0.0244	0.0	.025	98.0	57.3-136	L727166-02	WG748136
1,2-Dibromoethane	mg/l	0.0246	0.0	.025	98.0	67.1-125	L727166-02	WG748136
1,2-Dichlorobenzene	mg/l	0.0249	0.0	.025	100.	68.2-123	L727166-02	WG748136
1,2-Dichloroethane	mg/l	0.0218	0.0	.025	87.0	60-126	L727166-02	WG748136
1,2-Dichloropropane	mg/l	0.0217	0.0	.025	87.0	64.2-123	L727166-02	WG748136
1,3,5-Trimethylbenzene	mg/l	0.0235	0.0	.025	94.0	63.6-132	L727166-02	WG748136
1,3-Dichlorobenzene	mg/l	0.0254	0.0	.025	100.	63.1-131	L727166-02	WG748136
1,3-Dichloropropane	mg/l	0.0234	0.0	.025	94.0	67.9-121	L727166-02	WG748136
1,4-Dichlorobenzene	mg/l	0.0229	0.0	.025	92.0	68.6-123	L727166-02	WG748136
2,2-Dichloropropane	mg/l	0.0208	0.0	.025	83.0	50.5-144	L727166-02	WG748136
2-Butanone (MEK)	mg/l	0.122	0.0	.125	97.0	22.4-138	L727166-02	WG748136
2-Chloroethyl vinyl ether	mg/l	0.0488	0.0	.125	39.0	10-155	L727166-02	WG748136
2-Chlorotoluene	mg/l	0.0238	0.0	.025	95.0	63.6-128	L727166-02	WG748136
4-Chlorotoluene	mg/l	0.0231	0.0	.025	92.0	65.7-127	L727166-02	WG748136
4-Methyl-2-pentanone (MIBK)	mg/l	0.114	0.0	.125	92.0	60.8-140	L727166-02	WG748136
Acetone	mg/l	0.105	0.0101	.125	76.0	10-130	L727166-02	WG748136
Acrolein	mg/l	0.107	0.0	.125	85.0	10-200	L727166-02	WG748136
Acrylonitrile	mg/l	0.114	0.0	.125	91.0	49.4-133	L727166-02	WG748136
Benzene	mg/l	0.0208	0.0	.025	83.0	54.3-133	L727166-02	WG748136
Bromobenzene	mg/l	0.0234	0.0	.025	94.0	63.9-124	L727166-02	WG748136
Bromodichloromethane	mg/l	0.0229	0.0	.025	92.0	63.9-121	L727166-02	WG748136
Bromoform	mg/l	0.0260	0.0	.025	100.	59.5-134	L727166-02	WG748136
Bromomethane	mg/l	0.0260	0.0	.025	100.	41.7-155	L727166-02	WG748136
Carbon tetrachloride	mg/l	0.0206	0.0	.025	82.0	55.7-134	L727166-02	WG748136
Chlorobenzene	mg/l	0.0232	0.0	.025	93.0	67-125	L727166-02	WG748136
Chlorodibromomethane	mg/l	0.0235	0.0	.025	94.0	64.3-125	L727166-02	WG748136
Chloroethane	mg/l	0.0186	0.0	.025	74.0	51.5-136	L727166-02	WG748136
Chloroform	mg/l	0.0219	0.0	.025	88.0	63-129	L727166-02	WG748136
Chloromethane	mg/l	0.0176	0.0	.025	70.0	42.4-135	L727166-02	WG748136
cis-1,2-Dichloroethene	mg/l	0.0218	0.0	.025	87.0	59.2-129	L727166-02	WG748136
cis-1,3-Dichloropropene	mg/l	0.0225	0.0	.025	90.0	66.4-125	L727166-02	WG748136
Di-isopropyl ether	mg/l	0.0206	0.0	.025	82.0	56.9-136	L727166-02	WG748136
Dibromomethane	mg/l	0.0225	0.0	.025	90.0	68.2-124	L727166-02	WG748136
Dichlorodifluoromethane	mg/l	0.0196	0.0	.025	78.0	40.6-144	L727166-02	WG748136
Ethylbenzene	mg/l	0.0224	0.0	.025	90.0	61.4-133	L727166-02	WG748136
Hexachloro-1,3-butadiene	mg/l	0.0226	0.0	.025	90.0	55.1-136	L727166-02	WG748136
Isopropylbenzene	mg/l	0.0228	0.0	.025	91.0	66.8-141	L727166-02	WG748136
Methyl tert-butyl ether	mg/l	0.0219	0.0	.025	88.0	57.7-134	L727166-02	WG748136
Methylene Chloride	mg/l	0.0215	0.0	.025	86.0	58.1-122	L727166-02	WG748136
n-Butylbenzene	mg/l	0.0225	0.0	.025	90.0	62.7-140	L727166-02	WG748136
n-Propylbenzene	mg/l	0.0233	0.0	.025	93.0	65.9-131	L727166-02	WG748136
Naphthalene	mg/l	0.0259	0.00108	.025	99.0	58-135	L727166-02	WG748136
p-Isopropyltoluene	mg/l	0.0243	0.0	.025	97.0	63.2-139	L727166-02	WG748136
sec-Butylbenzene	mg/l	0.0231	0.0	.025	92.0	62.2-136	L727166-02	WG748136
Styrene	mg/l	0.0236	0.0	.025	94.0	66.8-133	L727166-02	WG748136
tert-Butylbenzene	mg/l	0.0241	0.0	.025	96.0	63.3-134	L727166-02	WG748136
Tetrachloroethene	mg/l	0.0229	0.0	.025	92.0	53-139	L727166-02	WG748136

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Toluene	mg/l	0.0214	0.0	.025	86.0	61.4-130	L727166-02	WG748136
trans-1,2-Dichloroethene	mg/l	0.0209	0.0	.025	84.0	56.5-129	L727166-02	WG748136
trans-1,3-Dichloropropene	mg/l	0.0232	0.0	.025	93.0	64.1-128	L727166-02	WG748136
Trichloroethene	mg/l	0.0211	0.0	.025	84.0	44.1-149	L727166-02	WG748136
Trichlorofluoromethane	mg/l	0.0192	0.0	.025	77.0	49.6-145	L727166-02	WG748136
Vinyl chloride	mg/l	0.0189	0.0	.025	76.0	47.8-137	L727166-02	WG748136
Xylenes, Total	mg/l	0.0674	0.000345	.075	89.0	63.3-131	L727166-02	WG748136
4-Bromofluorobenzene					100.0	71-126		WG748136
Dibromofluoromethane					96.80	78.3-121		WG748136
Toluene-d8					99.30	88.5-111		WG748136

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0243	0.0243	97.1	64-128	0.160	20	L727166-02	WG748136
1,1,1-Trichloroethane	mg/l	0.0211	0.0210	84.4	58.7-134	0.700	20	L727166-02	WG748136
1,1,2,2-Tetrachloroethane	mg/l	0.0277	0.0269	111.	56-132	2.91	22.2	L727166-02	WG748136
1,1,2-Trichloroethane	mg/l	0.0255	0.0248	102.	66.3-125	3.06	20	L727166-02	WG748136
1,1,2-Trichlorotrifluoroethane	mg/l	0.0190	0.0166	76.0	54.8-154	13.3	22.5	L727166-02	WG748136
1,1-Dichloroethane	mg/l	0.0211	0.0207	84.4	58.5-132	1.72	20	L727166-02	WG748136
1,1-Dichloroethene	mg/l	0.0197	0.0200	78.9	51.1-140	1.54	20.2	L727166-02	WG748136
1,1-Dichloropropene	mg/l	0.0202	0.0196	81.0	57.3-136	3.43	20	L727166-02	WG748136
1,2,3-Trichlorobenzene	mg/l	0.0262	0.0252	105.	59.1-138	3.89	23.7	L727166-02	WG748136
1,2,3-Trichloropropane	mg/l	0.0277	0.0298	111.	61.4-128	7.35	22.4	L727166-02	WG748136
1,2,3-Trimethylbenzene	mg/l	0.0221	0.0224	86.8	61.3-122	1.34	20	L727166-02	WG748136
1,2,4-Trichlorobenzene	mg/l	0.0262	0.0266	105.	63.6-143	1.49	21.9	L727166-02	WG748136
1,2,4-Trimethylbenzene	mg/l	0.0234	0.0237	90.0	57.4-137	1.31	20	L727166-02	WG748136
1,2-Dibromo-3-Chloropropane	mg/l	0.0256	0.0244	102.	57.3-136	4.92	27	L727166-02	WG748136
1,2-Dibromoethane	mg/l	0.0237	0.0246	95.0	67.1-125	3.60	20	L727166-02	WG748136
1,2-Dichlorobenzene	mg/l	0.0252	0.0249	101.	68.2-123	1.37	20	L727166-02	WG748136
1,2-Dichloroethane	mg/l	0.0226	0.0218	90.6	60-126	3.75	20	L727166-02	WG748136
1,2-Dichloropropane	mg/l	0.0214	0.0217	85.5	64.2-123	1.36	20	L727166-02	WG748136
1,3,5-Trimethylbenzene	mg/l	0.0230	0.0235	92.1	63.6-132	2.13	20.5	L727166-02	WG748136
1,3-Dichlorobenzene	mg/l	0.0255	0.0254	102.	63.1-131	0.290	20	L727166-02	WG748136
1,3-Dichloropropane	mg/l	0.0230	0.0234	91.9	67.9-121	1.74	20	L727166-02	WG748136
1,4-Dichlorobenzene	mg/l	0.0228	0.0229	91.3	68.6-123	0.220	20	L727166-02	WG748136
2,2-Dichloropropane	mg/l	0.0219	0.0208	87.6	50.5-144	5.10	21.9	L727166-02	WG748136
2-Butanone (MEK)	mg/l	0.115	0.122	91.9	22.4-138	5.68	27	L727166-02	WG748136
2-Chloroethyl vinyl ether	mg/l	0.0176	0.0488	14.1	10-155	93.9*	20	L727166-02	WG748136
2-Chlorotoluene	mg/l	0.0228	0.0238	91.0	63.6-128	4.61	20	L727166-02	WG748136
4-Chlorotoluene	mg/l	0.0226	0.0231	90.3	65.7-127	2.49	20	L727166-02	WG748136
4-Methyl-2-pentanone (MIBK)	mg/l	0.124	0.114	99.6	60.8-140	8.40	25.1	L727166-02	WG748136
Acetone	mg/l	0.116	0.105	84.7	10-130	9.86	27.9	L727166-02	WG748136
Acrolein	mg/l	0.123	0.107	98.2	10-200	14.1	27.7	L727166-02	WG748136
Acrylonitrile	mg/l	0.124	0.114	99.2	49.4-133	8.59	25.3	L727166-02	WG748136
Benzene	mg/l	0.0212	0.0208	85.0	54.3-133	2.31	20	L727166-02	WG748136
Bromobenzene	mg/l	0.0233	0.0234	93.2	63.9-124	0.580	20	L727166-02	WG748136
Bromodichloromethane	mg/l	0.0233	0.0229	93.0	63.9-121	1.36	20	L727166-02	WG748136
Bromoform	mg/l	0.0264	0.0260	106.	59.5-134	1.55	20.5	L727166-02	WG748136
Bromomethane	mg/l	0.0261	0.0260	104.	41.7-155	0.420	21.9	L727166-02	WG748136
Carbon tetrachloride	mg/l	0.0210	0.0206	84.2	55.7-134	2.32	20	L727166-02	WG748136
Chlorobenzene	mg/l	0.0232	0.0232	92.8	67-125	0.140	20	L727166-02	WG748136
Chlorodibromomethane	mg/l	0.0241	0.0235	96.4	64.3-125	2.52	20.8	L727166-02	WG748136
Chloroethane	mg/l	0.0185	0.0186	74.1	51.5-136	0.410	40	L727166-02	WG748136
Chloroform	mg/l	0.0231	0.0219	92.5	63-129	5.24	20	L727166-02	WG748136
Chloromethane	mg/l	0.0175	0.0176	70.0	42.4-135	0.360	20	L727166-02	WG748136
cis-1,2-Dichloroethene	mg/l	0.0223	0.0218	89.3	59.2-129	2.41	20	L727166-02	WG748136
cis-1,3-Dichloropropene	mg/l	0.0226	0.0225	90.4	66.4-125	0.560	20	L727166-02	WG748136
Di-isopropyl ether	mg/l	0.0211	0.0206	84.4	56.9-136	2.24	20	L727166-02	WG748136

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Level II

L727166

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Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Dibromomethane	mg/l	0.0228	0.0225	91.4	68.2-124	1.46	20	L727166-02	WG748136
Dichlorodifluoromethane	mg/l	0.0208	0.0196	83.1	40.6-144	5.77	20.2	L727166-02	WG748136
Ethylbenzene	mg/l	0.0213	0.0224	85.3	61.4-133	4.88	20	L727166-02	WG748136
Hexachloro-1,3-butadiene	mg/l	0.0225	0.0226	89.9	55.1-136	0.420	23.6	L727166-02	WG748136
Isopropylbenzene	mg/l	0.0223	0.0228	89.2	66.8-141	2.17	20	L727166-02	WG748136
Methyl tert-butyl ether	mg/l	0.0235	0.0219	94.0	57.7-134	7.22	20	L727166-02	WG748136
Methylene Chloride	mg/l	0.0223	0.0215	89.4	58.1-122	4.05	20	L727166-02	WG748136
n-Butylbenzene	mg/l	0.0221	0.0225	88.2	62.7-140	1.97	20.3	L727166-02	WG748136
n-Propylbenzene	mg/l	0.0229	0.0233	91.5	65.9-131	1.80	20	L727166-02	WG748136
Naphthalene	mg/l	0.0276	0.0259	106.	58-135	6.30	25.5	L727166-02	WG748136
p-Isopropyltoluene	mg/l	0.0237	0.0243	94.7	63.2-139	2.44	20.4	L727166-02	WG748136
sec-Butylbenzene	mg/l	0.0228	0.0231	91.4	62.2-136	1.09	20.3	L727166-02	WG748136
Styrene	mg/l	0.0239	0.0236	95.7	66.8-133	1.33	20	L727166-02	WG748136
tert-Butylbenzene	mg/l	0.0236	0.0241	94.3	63.3-134	2.21	21	L727166-02	WG748136
Tetrachloroethene	mg/l	0.0212	0.0229	84.8	53-139	7.86	20	L727166-02	WG748136
Toluene	mg/l	0.0210	0.0214	84.2	61.4-130	1.75	20	L727166-02	WG748136
trans-1,2-Dichloroethene	mg/l	0.0202	0.0209	80.7	56.5-129	3.68	20	L727166-02	WG748136
trans-1,3-Dichloropropene	mg/l	0.0234	0.0232	93.5	64.1-128	0.810	20	L727166-02	WG748136
Trichloroethene	mg/l	0.0213	0.0211	85.4	44.1-149	1.30	20	L727166-02	WG748136
Trichlorofluoromethane	mg/l	0.0214	0.0192	85.7	49.6-145	10.8	21.2	L727166-02	WG748136
Vinyl chloride	mg/l	0.0197	0.0189	78.9	47.8-137	4.07	20	L727166-02	WG748136
Xylenes, Total	mg/l	0.0652	0.0674	86.5	63.3-131	3.30	20	L727166-02	WG748136
4-Bromofluorobenzene				97.20	71-126				WG748136
Dibromofluoromethane				103.0	78.3-121				WG748136
Toluene-d8				98.70	88.5-111				WG748136

Batch number /Run number / Sample number cross reference

WG748136: R2998109: L727166-01 02 03 04 05 06
WG748572: R2998256 R2998347: L727166-01 02 03 04 05 06

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
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October 17, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Report Summary

Friday December 12, 2014

Report Number: L737329
Samples Received: 12/05/14
Client Project: 5047-RC-C100

Description: Boulder 13th Street Plaza

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Entire Report Reviewed By:

Darren Reeder , ESC Representative

Laboratory Certification Numbers

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-01

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-1

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	12/08/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	12/08/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	12/08/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	12/08/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Bromoform	U	0.00047	0.0010	mg/l	J3	8260B	12/08/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	12/08/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	12/08/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	12/08/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	12/08/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	12/08/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	12/08/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	12/08/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	12/08/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	12/08/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	12/08/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l	J4	8260B	12/08/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	12/08/14	1

U = ND (Not Detected)
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-01

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-1

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	12/08/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	12/08/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l	J3	8260B	12/08/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Naphthalene	U	0.0010	0.0050	mg/l		8260B	12/08/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	12/08/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	12/08/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	12/08/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J3	8260B	12/08/14	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	12/08/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	12/08/14	1
Surrogate Recovery								
Toluene-d8	108.			% Rec.		8260B	12/08/14	1
Dibromofluoromethane	107.			% Rec.		8260B	12/08/14	1
4-Bromofluorobenzene	106.			% Rec.		8260B	12/08/14	1
Base/Neutral Extractables								
Acenaphthene	U	0.00032	0.0010	mg/l		8270C	12/08/14	1
Acenaphthylene	U	0.00031	0.0010	mg/l		8270C	12/08/14	1
Anthracene	U	0.00029	0.0010	mg/l		8270C	12/08/14	1
Benzidine	U	0.0043	0.010	mg/l		8270C	12/08/14	1
Benzo(a)anthracene	U	0.00032	0.0010	mg/l		8270C	12/08/14	1
Benzo(b)fluoranthene	U	0.00027	0.0010	mg/l		8270C	12/08/14	1
Benzo(k)fluoranthene	U	0.00036	0.0010	mg/l		8270C	12/08/14	1
Benzo(g,h,i)perylene	U	0.00033	0.0010	mg/l	J3	8270C	12/08/14	1
Benzo(a)pyrene	U	0.00034	0.0010	mg/l		8270C	12/08/14	1
Bis(2-chlorethoxy)methane	U	0.00033	0.010	mg/l		8270C	12/08/14	1
Bis(2-chloroethyl)ether	U	0.0016	0.010	mg/l		8270C	12/08/14	1
Bis(2-chloroisopropyl)ether	U	0.00044	0.010	mg/l		8270C	12/08/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-01

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-1

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromophenyl-phenylether	U	0.00034	0.010	mg/l		8270C	12/08/14	1
2-Chloronaphthalene	U	0.00033	0.0010	mg/l		8270C	12/08/14	1
4-Chlorophenyl-phenylether	U	0.00030	0.010	mg/l		8270C	12/08/14	1
Chrysene	U	0.00033	0.0010	mg/l		8270C	12/08/14	1
Dibenz(a,h)anthracene	U	0.00028	0.0010	mg/l		8270C	12/08/14	1
3,3-Dichlorobenzidine	U	0.0020	0.010	mg/l		8270C	12/08/14	1
2,4-Dinitrotoluene	U	0.0016	0.010	mg/l		8270C	12/08/14	1
2,6-Dinitrotoluene	U	0.00028	0.010	mg/l		8270C	12/08/14	1
Fluoranthene	U	0.00031	0.0010	mg/l		8270C	12/08/14	1
Fluorene	U	0.00032	0.0010	mg/l		8270C	12/08/14	1
Hexachlorobenzene	U	0.00034	0.0010	mg/l		8270C	12/08/14	1
Hexachloro-1,3-butadiene	U	0.00033	0.010	mg/l		8270C	12/08/14	1
Hexachlorocyclopentadiene	U	0.0023	0.010	mg/l		8270C	12/08/14	1
Hexachloroethane	U	0.00036	0.010	mg/l		8270C	12/08/14	1
Indeno(1,2,3-cd)pyrene	U	0.00028	0.0010	mg/l		8270C	12/08/14	1
Isophorone	U	0.00027	0.010	mg/l		8270C	12/08/14	1
Naphthalene	U	0.00037	0.0010	mg/l		8270C	12/08/14	1
Nitrobenzene	U	0.00037	0.010	mg/l		8270C	12/08/14	1
n-Nitrosodimethylamine	U	0.0013	0.010	mg/l		8270C	12/08/14	1
n-Nitrosodiphenylamine	U	0.00030	0.010	mg/l		8270C	12/08/14	1
n-Nitrosodi-n-propylamine	U	0.00040	0.010	mg/l		8270C	12/08/14	1
Phenanthrene	U	0.00037	0.0010	mg/l		8270C	12/08/14	1
Benzylbutyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/08/14	1
Bis(2-ethylhexyl)phthalate	0.0016	0.00071	0.0030	mg/l	J	8270C	12/08/14	1
Di-n-butyl phthalate	0.0015	0.00027	0.0030	mg/l	J	8270C	12/08/14	1
Diethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/08/14	1
Dimethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/08/14	1
Di-n-octyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/08/14	1
Pyrene	U	0.00033	0.0010	mg/l		8270C	12/08/14	1
1,2,4-Trichlorobenzene	U	0.00036	0.010	mg/l		8270C	12/08/14	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.00026	0.010	mg/l		8270C	12/08/14	1
2-Chlorophenol	U	0.00028	0.010	mg/l		8270C	12/08/14	1
2,4-Dichlorophenol	U	0.00028	0.010	mg/l		8270C	12/08/14	1
2,4-Dimethylphenol	U	0.00062	0.010	mg/l		8270C	12/08/14	1
4,6-Dinitro-2-methylphenol	U	0.0026	0.010	mg/l		8270C	12/08/14	1
2,4-Dinitrophenol	U	0.0032	0.010	mg/l		8270C	12/08/14	1
2-Nitrophenol	U	0.00032	0.010	mg/l		8270C	12/08/14	1
4-Nitrophenol	U	0.0020	0.010	mg/l		8270C	12/08/14	1
Pentachlorophenol	U	0.00031	0.010	mg/l		8270C	12/08/14	1
Phenol	U	0.00033	0.010	mg/l		8270C	12/08/14	1
2,4,6-Trichlorophenol	U	0.00030	0.010	mg/l		8270C	12/08/14	1
Surrogate Recovery								

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REPORT OF ANALYSIS

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December 12, 2014

ESC Sample # : L737329-01

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-1

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	40.7			% Rec.		8270C	12/08/14	1
Phenol-d5	29.1			% Rec.		8270C	12/08/14	1
Nitrobenzene-d5	48.0			% Rec.		8270C	12/08/14	1
2-Fluorobiphenyl	71.6			% Rec.		8270C	12/08/14	1
2,4,6-Tribromophenol	47.1			% Rec.		8270C	12/08/14	1
p-Terphenyl-d14	61.6			% Rec.		8270C	12/08/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-02

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-2

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 13:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	12/08/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	12/08/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	12/08/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	12/08/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Bromoform	U	0.00047	0.0010	mg/l	J3	8260B	12/08/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	12/08/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	12/08/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	12/08/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	12/08/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	12/08/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	12/08/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	12/08/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	12/08/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	12/08/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	12/08/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l	J4	8260B	12/08/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	12/08/14	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-02

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-2

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 13:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	12/08/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	12/08/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l	J3	8260B	12/08/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Naphthalene	U	0.0010	0.0050	mg/l		8260B	12/08/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	12/08/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	12/08/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	12/08/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J3	8260B	12/08/14	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	12/08/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	12/08/14	1
Surrogate Recovery								
Toluene-d8	107.			% Rec.		8260B	12/08/14	1
Dibromofluoromethane	110.			% Rec.		8260B	12/08/14	1
4-Bromofluorobenzene	106.			% Rec.		8260B	12/08/14	1
Base/Neutral Extractables								
Acenaphthene	U	0.00032	0.0010	mg/l		8270C	12/08/14	1
Acenaphthylene	U	0.00031	0.0010	mg/l		8270C	12/08/14	1
Anthracene	U	0.00029	0.0010	mg/l		8270C	12/08/14	1
Benzidine	U	0.0043	0.010	mg/l		8270C	12/08/14	1
Benzo(a)anthracene	U	0.00032	0.0010	mg/l		8270C	12/08/14	1
Benzo(b)fluoranthene	U	0.00027	0.0010	mg/l		8270C	12/08/14	1
Benzo(k)fluoranthene	U	0.00036	0.0010	mg/l		8270C	12/08/14	1
Benzo(g,h,i)perylene	U	0.00033	0.0010	mg/l	J3	8270C	12/08/14	1
Benzo(a)pyrene	0.0010	0.00034	0.0010	mg/l		8270C	12/08/14	1
Bis(2-chlorethoxy)methane	U	0.00033	0.010	mg/l		8270C	12/08/14	1
Bis(2-chloroethyl)ether	U	0.0016	0.010	mg/l		8270C	12/08/14	1
Bis(2-chloroisopropyl)ether	U	0.00044	0.010	mg/l		8270C	12/08/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-02

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-2

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 13:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromophenyl-phenylether	U	0.00034	0.010	mg/l		8270C	12/08/14	1
2-Chloronaphthalene	U	0.00033	0.0010	mg/l		8270C	12/08/14	1
4-Chlorophenyl-phenylether	U	0.00030	0.010	mg/l		8270C	12/08/14	1
Chrysene	U	0.00033	0.0010	mg/l		8270C	12/08/14	1
Dibenz(a,h)anthracene	U	0.00028	0.0010	mg/l		8270C	12/08/14	1
3,3-Dichlorobenzidine	U	0.0020	0.010	mg/l		8270C	12/08/14	1
2,4-Dinitrotoluene	U	0.0016	0.010	mg/l		8270C	12/08/14	1
2,6-Dinitrotoluene	U	0.00028	0.010	mg/l		8270C	12/08/14	1
Fluoranthene	0.0010	0.00031	0.0010	mg/l		8270C	12/08/14	1
Fluorene	U	0.00032	0.0010	mg/l		8270C	12/08/14	1
Hexachlorobenzene	U	0.00034	0.0010	mg/l		8270C	12/08/14	1
Hexachloro-1,3-butadiene	U	0.00033	0.010	mg/l		8270C	12/08/14	1
Hexachlorocyclopentadiene	U	0.0023	0.010	mg/l		8270C	12/08/14	1
Hexachloroethane	U	0.00036	0.010	mg/l		8270C	12/08/14	1
Indeno(1,2,3-cd)pyrene	U	0.00028	0.0010	mg/l		8270C	12/08/14	1
Isophorone	U	0.00027	0.010	mg/l		8270C	12/08/14	1
Naphthalene	U	0.00037	0.0010	mg/l		8270C	12/08/14	1
Nitrobenzene	U	0.00037	0.010	mg/l		8270C	12/08/14	1
n-Nitrosodimethylamine	U	0.0013	0.010	mg/l		8270C	12/08/14	1
n-Nitrosodiphenylamine	U	0.00030	0.010	mg/l		8270C	12/08/14	1
n-Nitrosodi-n-propylamine	U	0.00040	0.010	mg/l		8270C	12/08/14	1
Phenanthrene	U	0.00037	0.0010	mg/l		8270C	12/08/14	1
Benzylbutyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/08/14	1
Bis(2-ethylhexyl)phthalate	0.0022	0.00071	0.0030	mg/l	J	8270C	12/08/14	1
Di-n-butyl phthalate	0.0017	0.00027	0.0030	mg/l	J	8270C	12/08/14	1
Diethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/08/14	1
Dimethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/08/14	1
Di-n-octyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/08/14	1
Pyrene	0.00068	0.00033	0.0010	mg/l	J	8270C	12/08/14	1
1,2,4-Trichlorobenzene	U	0.00036	0.010	mg/l		8270C	12/08/14	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.00026	0.010	mg/l		8270C	12/08/14	1
2-Chlorophenol	U	0.00028	0.010	mg/l		8270C	12/08/14	1
2,4-Dichlorophenol	U	0.00028	0.010	mg/l		8270C	12/08/14	1
2,4-Dimethylphenol	U	0.00062	0.010	mg/l		8270C	12/08/14	1
4,6-Dinitro-2-methylphenol	U	0.0026	0.010	mg/l		8270C	12/08/14	1
2,4-Dinitrophenol	U	0.0032	0.010	mg/l		8270C	12/08/14	1
2-Nitrophenol	U	0.00032	0.010	mg/l		8270C	12/08/14	1
4-Nitrophenol	U	0.0020	0.010	mg/l		8270C	12/08/14	1
Pentachlorophenol	U	0.00031	0.010	mg/l		8270C	12/08/14	1
Phenol	U	0.00033	0.010	mg/l		8270C	12/08/14	1
2,4,6-Trichlorophenol	U	0.00030	0.010	mg/l		8270C	12/08/14	1
Surrogate Recovery								

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-02

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-2

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 13:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	42.5			% Rec.		8270C	12/08/14	1
Phenol-d5	31.2			% Rec.		8270C	12/08/14	1
Nitrobenzene-d5	50.7			% Rec.		8270C	12/08/14	1
2-Fluorobiphenyl	75.4			% Rec.		8270C	12/08/14	1
2,4,6-Tribromophenol	52.5			% Rec.		8270C	12/08/14	1
p-Terphenyl-d14	64.3			% Rec.		8270C	12/08/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-03

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-3R

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 12:02

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	12/08/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	12/08/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	12/08/14	1
Benzene	0.17	0.00033	0.0010	mg/l		8260B	12/08/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Bromoform	U	0.00047	0.0010	mg/l	J3	8260B	12/08/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	12/08/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
sec-Butylbenzene	0.00070	0.00036	0.0010	mg/l	J	8260B	12/08/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	12/08/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	12/08/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	12/08/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	12/08/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	12/08/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	12/08/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	12/08/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	12/08/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	12/08/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l	J4	8260B	12/08/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Ethylbenzene	0.44	0.019	0.050	mg/l		8260B	12/09/14	50
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Isopropylbenzene	0.040	0.00033	0.0010	mg/l		8260B	12/08/14	1

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REPORT OF ANALYSIS

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USA Environment, LP
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Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-03

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-3R

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 12:02

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.0073	0.00035	0.0010	mg/l		8260B	12/08/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	12/08/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	12/08/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l	J3	8260B	12/08/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Naphthalene	5.3	0.050	0.25	mg/l		8260B	12/09/14	50
n-Propylbenzene	0.012	0.00035	0.0010	mg/l		8260B	12/08/14	1
Styrene	0.0018	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	12/08/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Toluene	0.022	0.00078	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	12/08/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	12/08/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J3	8260B	12/08/14	1
1,2,4-Trimethylbenzene	0.16	0.00037	0.0010	mg/l		8260B	12/08/14	1
1,2,3-Trimethylbenzene	0.059	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,3,5-Trimethylbenzene	0.057	0.00039	0.0010	mg/l		8260B	12/08/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Xylenes, Total	0.21	0.0011	0.0030	mg/l		8260B	12/08/14	1
Surrogate Recovery								
Toluene-d8	109.			% Rec.		8260B	12/08/14	1
Dibromofluoromethane	105.			% Rec.		8260B	12/08/14	1
4-Bromofluorobenzene	105.			% Rec.		8260B	12/08/14	1
Base/Neutral Extractables								
Acenaphthene	0.24	0.0032	0.010	mg/l		8270C	12/09/14	10
Acenaphthylene	0.058	0.0031	0.010	mg/l		8270C	12/09/14	10
Anthracene	0.038	0.0029	0.010	mg/l		8270C	12/09/14	10
Benzidine	U	0.043	0.10	mg/l		8270C	12/09/14	10
Benzo(a)anthracene	0.022	0.0032	0.010	mg/l		8270C	12/09/14	10
Benzo(b)fluoranthene	0.011	0.0027	0.010	mg/l		8270C	12/09/14	10
Benzo(k)fluoranthene	U	0.0036	0.010	mg/l		8270C	12/09/14	10
Benzo(g,h,i)perylene	0.0047	0.0033	0.010	mg/l	J	8270C	12/09/14	10
Benzo(a)pyrene	0.013	0.0034	0.010	mg/l		8270C	12/09/14	10
Bis(2-chlorethoxy)methane	U	0.0033	0.10	mg/l		8270C	12/09/14	10
Bis(2-chloroethyl)ether	U	0.016	0.10	mg/l		8270C	12/09/14	10
Bis(2-chloroisopropyl)ether	U	0.0044	0.10	mg/l		8270C	12/09/14	10

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-03

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-3R

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 12:02

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromophenyl-phenylether	U	0.0034	0.10	mg/l		8270C	12/09/14	10
2-Chloronaphthalene	U	0.0033	0.010	mg/l		8270C	12/09/14	10
4-Chlorophenyl-phenylether	U	0.0030	0.10	mg/l		8270C	12/09/14	10
Chrysene	0.019	0.0033	0.010	mg/l		8270C	12/09/14	10
Dibenz(a,h)anthracene	U	0.0028	0.010	mg/l		8270C	12/09/14	10
3,3-Dichlorobenzidine	U	0.020	0.10	mg/l		8270C	12/09/14	10
2,4-Dinitrotoluene	U	0.016	0.10	mg/l		8270C	12/09/14	10
2,6-Dinitrotoluene	U	0.0028	0.10	mg/l		8270C	12/09/14	10
Fluoranthene	0.034	0.0031	0.010	mg/l		8270C	12/09/14	10
Fluorene	0.086	0.0032	0.010	mg/l		8270C	12/09/14	10
Hexachlorobenzene	U	0.0034	0.010	mg/l		8270C	12/09/14	10
Hexachloro-1,3-butadiene	U	0.0033	0.10	mg/l		8270C	12/09/14	10
Hexachlorocyclopentadiene	U	0.023	0.10	mg/l		8270C	12/09/14	10
Hexachloroethane	U	0.0036	0.10	mg/l		8270C	12/09/14	10
Indeno(1,2,3-cd)pyrene	0.0042	0.0028	0.010	mg/l	J	8270C	12/09/14	10
Isophorone	U	0.0027	0.10	mg/l		8270C	12/09/14	10
Naphthalene	1.9	0.0037	0.010	mg/l		8270C	12/09/14	10
Nitrobenzene	U	0.0037	0.10	mg/l		8270C	12/09/14	10
n-Nitrosodimethylamine	U	0.013	0.10	mg/l		8270C	12/09/14	10
n-Nitrosodiphenylamine	U	0.0030	0.10	mg/l		8270C	12/09/14	10
n-Nitrosodi-n-propylamine	U	0.0040	0.10	mg/l		8270C	12/09/14	10
Phenanthrene	0.16	0.0037	0.010	mg/l		8270C	12/09/14	10
Benzylbutyl phthalate	U	0.0028	0.030	mg/l		8270C	12/09/14	10
Bis(2-ethylhexyl)phthalate	U	0.0071	0.030	mg/l		8270C	12/09/14	10
Di-n-butyl phthalate	U	0.0027	0.030	mg/l		8270C	12/09/14	10
Diethyl phthalate	U	0.0028	0.030	mg/l		8270C	12/09/14	10
Dimethyl phthalate	U	0.0028	0.030	mg/l		8270C	12/09/14	10
Di-n-octyl phthalate	U	0.0028	0.030	mg/l		8270C	12/09/14	10
Pyrene	0.048	0.0033	0.010	mg/l		8270C	12/09/14	10
1,2,4-Trichlorobenzene	U	0.0036	0.10	mg/l		8270C	12/09/14	10
Acid Extractables								
4-Chloro-3-methylphenol	U	0.0026	0.10	mg/l		8270C	12/09/14	10
2-Chlorophenol	U	0.0028	0.10	mg/l		8270C	12/09/14	10
2,4-Dichlorophenol	U	0.0028	0.10	mg/l		8270C	12/09/14	10
2,4-Dimethylphenol	U	0.0062	0.10	mg/l		8270C	12/09/14	10
4,6-Dinitro-2-methylphenol	U	0.026	0.10	mg/l		8270C	12/09/14	10
2,4-Dinitrophenol	U	0.032	0.10	mg/l		8270C	12/09/14	10
2-Nitrophenol	U	0.0032	0.10	mg/l		8270C	12/09/14	10
4-Nitrophenol	U	0.020	0.10	mg/l		8270C	12/09/14	10
Pentachlorophenol	U	0.0031	0.10	mg/l		8270C	12/09/14	10
Phenol	U	0.0033	0.10	mg/l		8270C	12/09/14	10
2,4,6-Trichlorophenol	U	0.0030	0.10	mg/l		8270C	12/09/14	10
Surrogate Recovery								

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-03

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-3R

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 12:02

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	33.0			% Rec.		8270C	12/09/14	10
Phenol-d5	27.6			% Rec.		8270C	12/09/14	10
Nitrobenzene-d5	43.4			% Rec.		8270C	12/09/14	10
2-Fluorobiphenyl	45.1			% Rec.		8270C	12/09/14	10
2,4,6-Tribromophenol	41.0			% Rec.		8270C	12/09/14	10
p-Terphenyl-d14	40.3			% Rec.		8270C	12/09/14	10

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REPORT OF ANALYSIS

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USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-04

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-4

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 14:09

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	12/08/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	12/08/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	12/08/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	12/08/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Bromoform	U	0.00047	0.0010	mg/l	J3	8260B	12/08/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	12/08/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	12/08/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	12/08/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	12/08/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	12/08/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	12/08/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	12/08/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	12/08/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	12/08/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	12/08/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l	J4	8260B	12/08/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	12/08/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-04

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-4

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 14:09

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	12/08/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	12/08/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l	J3	8260B	12/08/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Naphthalene	0.0014	0.0010	0.0050	mg/l	J	8260B	12/09/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	12/08/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	12/08/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	12/08/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J3	8260B	12/08/14	1
1,2,4-Trimethylbenzene	0.00065	0.00037	0.0010	mg/l	J	8260B	12/08/14	1
1,2,3-Trimethylbenzene	0.00040	0.00032	0.0010	mg/l	J	8260B	12/08/14	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	12/08/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	12/08/14	1
Surrogate Recovery								
Toluene-d8	106.			% Rec.		8260B	12/08/14	1
Dibromofluoromethane	103.			% Rec.		8260B	12/08/14	1
4-Bromofluorobenzene	106.			% Rec.		8260B	12/08/14	1
Base/Neutral Extractables								
Acenaphthene	U	0.00032	0.0010	mg/l		8270C	12/09/14	1
Acenaphthylene	0.0014	0.00031	0.0010	mg/l		8270C	12/09/14	1
Anthracene	U	0.00029	0.0010	mg/l		8270C	12/09/14	1
Benzidine	U	0.0043	0.010	mg/l		8270C	12/09/14	1
Benzo(a)anthracene	U	0.00032	0.0010	mg/l		8270C	12/09/14	1
Benzo(b)fluoranthene	U	0.00027	0.0010	mg/l		8270C	12/09/14	1
Benzo(k)fluoranthene	U	0.00036	0.0010	mg/l		8270C	12/09/14	1
Benzo(g,h,i)perylene	0.00052	0.00033	0.0010	mg/l	JJ3	8270C	12/09/14	1
Benzo(a)pyrene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Bis(2-chlorethoxy)methane	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroethyl)ether	U	0.0016	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroisopropyl)ether	U	0.00044	0.010	mg/l		8270C	12/09/14	1

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REPORT OF ANALYSIS

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Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-04

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-4

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 14:09

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromophenyl-phenylether	U	0.00034	0.010	mg/l		8270C	12/09/14	1
2-Chloronaphthalene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
4-Chlorophenyl-phenylether	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Chrysene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Dibenz(a,h)anthracene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
3,3-Dichlorobenzidine	U	0.0020	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrotoluene	U	0.0016	0.010	mg/l		8270C	12/09/14	1
2,6-Dinitrotoluene	U	0.00028	0.010	mg/l		8270C	12/09/14	1
Fluoranthene	U	0.00031	0.0010	mg/l		8270C	12/09/14	1
Fluorene	U	0.00032	0.0010	mg/l		8270C	12/09/14	1
Hexachlorobenzene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Hexachlorocyclopentadiene	U	0.0023	0.010	mg/l		8270C	12/09/14	1
Hexachloroethane	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Indeno(1,2,3-cd)pyrene	0.00030	0.00028	0.0010	mg/l	J	8270C	12/09/14	1
Isophorone	U	0.00027	0.010	mg/l		8270C	12/09/14	1
Naphthalene	U	0.00037	0.0010	mg/l		8270C	12/09/14	1
Nitrobenzene	U	0.00037	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodimethylamine	U	0.0013	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodiphenylamine	U	0.00030	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodi-n-propylamine	U	0.00040	0.010	mg/l		8270C	12/09/14	1
Phenanthrene	U	0.00037	0.0010	mg/l		8270C	12/09/14	1
Benzylbutyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Bis(2-ethylhexyl)phthalate	0.00083	0.00071	0.0030	mg/l	J	8270C	12/09/14	1
Di-n-butyl phthalate	0.00036	0.00027	0.0030	mg/l	J	8270C	12/09/14	1
Diethyl phthalate	0.00048	0.00028	0.0030	mg/l	J	8270C	12/09/14	1
Dimethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Di-n-octyl phthalate	0.00069	0.00028	0.0030	mg/l	J	8270C	12/09/14	1
Pyrene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.00026	0.010	mg/l		8270C	12/09/14	1
2-Chlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dichlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dimethylphenol	U	0.00062	0.010	mg/l		8270C	12/09/14	1
4,6-Dinitro-2-methylphenol	U	0.0026	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrophenol	U	0.0032	0.010	mg/l		8270C	12/09/14	1
2-Nitrophenol	U	0.00032	0.010	mg/l		8270C	12/09/14	1
4-Nitrophenol	U	0.0020	0.010	mg/l		8270C	12/09/14	1
Pentachlorophenol	U	0.00031	0.010	mg/l		8270C	12/09/14	1
Phenol	U	0.00033	0.010	mg/l		8270C	12/09/14	1
2,4,6-Trichlorophenol	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Surrogate Recovery								

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MDL = Minimum Detection Limit = LOD = TRRP SDL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-04

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-4

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 14:09

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	43.5			% Rec.		8270C	12/09/14	1
Phenol-d5	31.2			% Rec.		8270C	12/09/14	1
Nitrobenzene-d5	53.4			% Rec.		8270C	12/09/14	1
2-Fluorobiphenyl	74.7			% Rec.		8270C	12/09/14	1
2,4,6-Tribromophenol	59.2			% Rec.		8270C	12/09/14	1
p-Terphenyl-d14	71.7			% Rec.		8270C	12/09/14	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-05

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-5

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 14:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	12/08/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	12/08/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	12/08/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	12/08/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Bromoform	U	0.00047	0.0010	mg/l	J3	8260B	12/08/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	12/08/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	12/08/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	12/08/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	12/08/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	12/08/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	12/08/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	12/08/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	12/08/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	12/08/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	12/08/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l	J4	8260B	12/08/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Ethylbenzene	0.00038	0.00038	0.0010	mg/l	J	8260B	12/08/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	12/08/14	1

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MDL = Minimum Detection Limit = LOD = TRRP SDL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-05

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-5

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 14:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	12/08/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	12/08/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l	J3	8260B	12/08/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Naphthalene	0.0016	0.0010	0.0050	mg/l	J	8260B	12/09/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	12/08/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	12/08/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	12/08/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J3	8260B	12/08/14	1
1,2,4-Trimethylbenzene	0.0013	0.00037	0.0010	mg/l		8260B	12/08/14	1
1,2,3-Trimethylbenzene	0.00062	0.00032	0.0010	mg/l	J	8260B	12/08/14	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	12/08/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	12/08/14	1
Surrogate Recovery								
Toluene-d8	106.			% Rec.		8260B	12/08/14	1
Dibromofluoromethane	106.			% Rec.		8260B	12/08/14	1
4-Bromofluorobenzene	105.			% Rec.		8260B	12/08/14	1
Base/Neutral Extractables								
Acenaphthene	0.0053	0.00032	0.0010	mg/l		8270C	12/09/14	1
Acenaphthylene	0.011	0.00031	0.0010	mg/l		8270C	12/09/14	1
Anthracene	0.0027	0.00029	0.0010	mg/l		8270C	12/09/14	1
Benzidine	U	0.0043	0.010	mg/l		8270C	12/09/14	1
Benzo(a)anthracene	0.0014	0.00032	0.0010	mg/l		8270C	12/09/14	1
Benzo(b)fluoranthene	0.00078	0.00027	0.0010	mg/l	J	8270C	12/09/14	1
Benzo(k)fluoranthene	U	0.00036	0.0010	mg/l		8270C	12/09/14	1
Benzo(g,h,i)perylene	0.00046	0.00033	0.0010	mg/l	J	8270C	12/09/14	1
Benzo(a)pyrene	0.00084	0.00034	0.0010	mg/l	J	8270C	12/09/14	1
Bis(2-chlorethoxy)methane	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroethyl)ether	U	0.0016	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroisopropyl)ether	U	0.00044	0.010	mg/l		8270C	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-05

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-5

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 14:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromophenyl-phenylether	U	0.00034	0.010	mg/l		8270C	12/09/14	1
2-Chloronaphthalene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
4-Chlorophenyl-phenylether	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Chrysene	0.00087	0.00033	0.0010	mg/l	J	8270C	12/09/14	1
Dibenz(a,h)anthracene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
3,3-Dichlorobenzidine	U	0.0020	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrotoluene	U	0.0016	0.010	mg/l		8270C	12/09/14	1
2,6-Dinitrotoluene	U	0.00028	0.010	mg/l		8270C	12/09/14	1
Fluoranthene	0.0027	0.00031	0.0010	mg/l		8270C	12/09/14	1
Fluorene	0.0034	0.00032	0.0010	mg/l		8270C	12/09/14	1
Hexachlorobenzene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Hexachlorocyclopentadiene	U	0.0023	0.010	mg/l		8270C	12/09/14	1
Hexachloroethane	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Indeno(1,2,3-cd)pyrene	0.00034	0.00028	0.0010	mg/l	J	8270C	12/09/14	1
Isophorone	U	0.00027	0.010	mg/l		8270C	12/09/14	1
Naphthalene	0.00073	0.00037	0.0010	mg/l	J	8270C	12/09/14	1
Nitrobenzene	U	0.00037	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodimethylamine	U	0.0013	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodiphenylamine	U	0.00030	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodi-n-propylamine	U	0.00040	0.010	mg/l		8270C	12/09/14	1
Phenanthrene	0.0093	0.00037	0.0010	mg/l		8270C	12/09/14	1
Benzylbutyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Bis(2-ethylhexyl)phthalate	U	0.00071	0.0030	mg/l		8270C	12/09/14	1
Di-n-butyl phthalate	0.00069	0.00027	0.0030	mg/l	J	8270C	12/09/14	1
Diethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Dimethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Di-n-octyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Pyrene	0.0048	0.00033	0.0010	mg/l		8270C	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.00026	0.010	mg/l		8270C	12/09/14	1
2-Chlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dichlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dimethylphenol	U	0.00062	0.010	mg/l		8270C	12/09/14	1
4,6-Dinitro-2-methylphenol	U	0.0026	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrophenol	U	0.0032	0.010	mg/l		8270C	12/09/14	1
2-Nitrophenol	U	0.00032	0.010	mg/l		8270C	12/09/14	1
4-Nitrophenol	U	0.0020	0.010	mg/l		8270C	12/09/14	1
Pentachlorophenol	U	0.00031	0.010	mg/l		8270C	12/09/14	1
Phenol	U	0.00033	0.010	mg/l		8270C	12/09/14	1
2,4,6-Trichlorophenol	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Surrogate Recovery								

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-05

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-5

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 14:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	35.4			% Rec.		8270C	12/09/14	1
Phenol-d5	28.3			% Rec.		8270C	12/09/14	1
Nitrobenzene-d5	47.5			% Rec.		8270C	12/09/14	1
2-Fluorobiphenyl	56.3			% Rec.		8270C	12/09/14	1
2,4,6-Tribromophenol	58.3			% Rec.		8270C	12/09/14	1
p-Terphenyl-d14	54.4			% Rec.		8270C	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
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Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-06

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-6

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 11:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	12/08/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	12/08/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	12/08/14	1
Benzene	0.00053	0.00033	0.0010	mg/l	J	8260B	12/08/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Bromoform	U	0.00047	0.0010	mg/l	J3	8260B	12/08/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	12/08/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	12/08/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	12/08/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	12/08/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	12/08/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	12/08/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	12/08/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	12/08/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	12/08/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	12/08/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l	J4	8260B	12/08/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Ethylbenzene	0.011	0.00038	0.0010	mg/l		8260B	12/08/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Isopropylbenzene	0.0029	0.00033	0.0010	mg/l		8260B	12/08/14	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-06

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-6

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 11:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	12/08/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	12/08/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l	J3	8260B	12/08/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Naphthalene	0.25	0.0050	0.025	mg/l		8260B	12/09/14	5
n-Propylbenzene	0.0012	0.00035	0.0010	mg/l		8260B	12/08/14	1
Styrene	0.00035	0.00031	0.0010	mg/l	J	8260B	12/08/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	12/08/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	12/08/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	12/08/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J3	8260B	12/08/14	1
1,2,4-Trimethylbenzene	0.014	0.00037	0.0010	mg/l		8260B	12/08/14	1
1,2,3-Trimethylbenzene	0.0045	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,3,5-Trimethylbenzene	0.0041	0.00039	0.0010	mg/l		8260B	12/08/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Xylenes, Total	0.0098	0.0011	0.0030	mg/l		8260B	12/08/14	1
Surrogate Recovery								
Toluene-d8	107.			% Rec.		8260B	12/08/14	1
Dibromofluoromethane	107.			% Rec.		8260B	12/08/14	1
4-Bromofluorobenzene	106.			% Rec.		8260B	12/08/14	1
Base/Neutral Extractables								
Acenaphthene	0.060	0.00032	0.0010	mg/l		8270C	12/09/14	1
Acenaphthylene	0.050	0.00031	0.0010	mg/l		8270C	12/09/14	1
Anthracene	0.017	0.00029	0.0010	mg/l		8270C	12/09/14	1
Benzidine	U	0.0043	0.010	mg/l		8270C	12/09/14	1
Benzo(a)anthracene	0.0032	0.00032	0.0010	mg/l		8270C	12/09/14	1
Benzo(b)fluoranthene	0.0020	0.00027	0.0010	mg/l		8270C	12/09/14	1
Benzo(k)fluoranthene	U	0.00036	0.0010	mg/l		8270C	12/09/14	1
Benzo(g,h,i)perylene	0.0011	0.00033	0.0010	mg/l		8270C	12/09/14	1
Benzo(a)pyrene	0.0021	0.00034	0.0010	mg/l		8270C	12/09/14	1
Bis(2-chlorethoxy)methane	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroethyl)ether	U	0.0016	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroisopropyl)ether	U	0.00044	0.010	mg/l		8270C	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-06

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-6

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 11:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromophenyl-phenylether	U	0.00034	0.010	mg/l		8270C	12/09/14	1
2-Chloronaphthalene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
4-Chlorophenyl-phenylether	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Chrysene	0.0026	0.00033	0.0010	mg/l		8270C	12/09/14	1
Dibenz(a,h)anthracene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
3,3-Dichlorobenzidine	U	0.0020	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrotoluene	U	0.0016	0.010	mg/l		8270C	12/09/14	1
2,6-Dinitrotoluene	U	0.00028	0.010	mg/l		8270C	12/09/14	1
Fluoranthene	0.013	0.00031	0.0010	mg/l		8270C	12/09/14	1
Fluorene	0.041	0.00032	0.0010	mg/l		8270C	12/09/14	1
Hexachlorobenzene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Hexachlorocyclopentadiene	U	0.0023	0.010	mg/l		8270C	12/09/14	1
Hexachloroethane	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Indeno(1,2,3-cd)pyrene	0.00078	0.00028	0.0010	mg/l	J	8270C	12/09/14	1
Isophorone	U	0.00027	0.010	mg/l		8270C	12/09/14	1
Naphthalene	0.14	0.00037	0.0010	mg/l		8270C	12/09/14	1
Nitrobenzene	U	0.00037	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodimethylamine	U	0.0013	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodiphenylamine	U	0.00030	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodi-n-propylamine	U	0.00040	0.010	mg/l		8270C	12/09/14	1
Phenanthrene	0.084	0.00037	0.0010	mg/l		8270C	12/09/14	1
Benzylbutyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Bis(2-ethylhexyl)phthalate	U	0.00071	0.0030	mg/l		8270C	12/09/14	1
Di-n-butyl phthalate	U	0.00027	0.0030	mg/l		8270C	12/09/14	1
Diethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Dimethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Di-n-octyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Pyrene	0.018	0.00033	0.0010	mg/l		8270C	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.00026	0.010	mg/l		8270C	12/09/14	1
2-Chlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dichlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dimethylphenol	U	0.00062	0.010	mg/l		8270C	12/09/14	1
4,6-Dinitro-2-methylphenol	U	0.0026	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrophenol	U	0.0032	0.010	mg/l		8270C	12/09/14	1
2-Nitrophenol	U	0.00032	0.010	mg/l		8270C	12/09/14	1
4-Nitrophenol	U	0.0020	0.010	mg/l		8270C	12/09/14	1
Pentachlorophenol	U	0.00031	0.010	mg/l		8270C	12/09/14	1
Phenol	U	0.00033	0.010	mg/l		8270C	12/09/14	1
2,4,6-Trichlorophenol	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Surrogate Recovery								

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-06

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-6

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 11:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	46.7			% Rec.		8270C	12/09/14	1
Phenol-d5	34.9			% Rec.		8270C	12/09/14	1
Nitrobenzene-d5	69.7			% Rec.		8270C	12/09/14	1
2-Fluorobiphenyl	77.7			% Rec.		8270C	12/09/14	1
2,4,6-Tribromophenol	82.7			% Rec.		8270C	12/09/14	1
p-Terphenyl-d14	75.4			% Rec.		8270C	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-07

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-7

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 11:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	12/08/14	1
Acrolein	U	0.0089	0.050	mg/l	J5	8260B	12/08/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	12/08/14	1
Benzene	0.10	0.00033	0.0010	mg/l		8260B	12/08/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	12/08/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	12/08/14	1
n-Butylbenzene	0.0010	0.00036	0.0010	mg/l		8260B	12/08/14	1
sec-Butylbenzene	0.00058	0.00036	0.0010	mg/l	J	8260B	12/08/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	12/08/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	12/08/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l	J6J3	8260B	12/08/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	12/08/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	12/08/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	12/08/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	12/08/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	12/08/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	12/08/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l	J4	8260B	12/08/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Ethylbenzene	0.10	0.00038	0.0010	mg/l	V	8260B	12/08/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Isopropylbenzene	0.023	0.00033	0.0010	mg/l		8260B	12/08/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-07

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-7

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 11:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	12/08/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	12/08/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	12/08/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Naphthalene	0.34	0.0050	0.025	mg/l		8260B	12/09/14	5
n-Propylbenzene	0.0043	0.00035	0.0010	mg/l		8260B	12/08/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	12/08/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Toluene	0.0058	0.00078	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	12/08/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	12/08/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	12/08/14	1
1,2,4-Trimethylbenzene	0.039	0.00037	0.0010	mg/l		8260B	12/08/14	1
1,2,3-Trimethylbenzene	0.037	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,3,5-Trimethylbenzene	0.0092	0.00039	0.0010	mg/l		8260B	12/08/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Xylenes, Total	0.086	0.0011	0.0030	mg/l		8260B	12/08/14	1
Surrogate Recovery								
Toluene-d8	109.			% Rec.		8260B	12/08/14	1
Dibromofluoromethane	105.			% Rec.		8260B	12/08/14	1
4-Bromofluorobenzene	106.			% Rec.		8260B	12/08/14	1
Base/Neutral Extractables								
Acenaphthene	0.11	0.00032	0.0010	mg/l	V	8270C	12/09/14	1
Acenaphthylene	0.045	0.00031	0.0010	mg/l		8270C	12/09/14	1
Anthracene	0.0081	0.00029	0.0010	mg/l		8270C	12/09/14	1
Benzidine	U	0.0043	0.010	mg/l		8270C	12/09/14	1
Benzo(a)anthracene	0.00034	0.00032	0.0010	mg/l	J	8270C	12/09/14	1
Benzo(b)fluoranthene	U	0.00027	0.0010	mg/l		8270C	12/09/14	1
Benzo(k)fluoranthene	U	0.00036	0.0010	mg/l		8270C	12/09/14	1
Benzo(g,h,i)perylene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Benzo(a)pyrene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Bis(2-chlorethoxy)methane	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroethyl)ether	U	0.0016	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroisopropyl)ether	U	0.00044	0.010	mg/l		8270C	12/09/14	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-07

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-7

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 11:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromophenyl-phenylether	U	0.00034	0.010	mg/l		8270C	12/09/14	1
2-Chloronaphthalene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
4-Chlorophenyl-phenylether	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Chrysene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Dibenz(a,h)anthracene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
3,3-Dichlorobenzidine	U	0.0020	0.010	mg/l	J3	8270C	12/09/14	1
2,4-Dinitrotoluene	U	0.0016	0.010	mg/l		8270C	12/09/14	1
2,6-Dinitrotoluene	U	0.00028	0.010	mg/l		8270C	12/09/14	1
Fluoranthene	0.0028	0.00031	0.0010	mg/l		8270C	12/09/14	1
Fluorene	0.025	0.00032	0.0010	mg/l		8270C	12/09/14	1
Hexachlorobenzene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Hexachlorocyclopentadiene	U	0.0023	0.010	mg/l		8270C	12/09/14	1
Hexachloroethane	U	0.00036	0.010	mg/l	J5	8270C	12/09/14	1
Indeno(1,2,3-cd)pyrene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
Isophorone	U	0.00027	0.010	mg/l		8270C	12/09/14	1
Naphthalene	0.16	0.00037	0.0010	mg/l	V	8270C	12/09/14	1
Nitrobenzene	U	0.00037	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodimethylamine	U	0.0013	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodiphenylamine	U	0.00030	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodi-n-propylamine	U	0.00040	0.010	mg/l		8270C	12/09/14	1
Phenanthrene	0.035	0.00037	0.0010	mg/l		8270C	12/09/14	1
Benzylbutyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Bis(2-ethylhexyl)phthalate	0.00075	0.00071	0.0030	mg/l	J	8270C	12/09/14	1
Di-n-butyl phthalate	U	0.00027	0.0030	mg/l		8270C	12/09/14	1
Diethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Dimethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Di-n-octyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Pyrene	0.0037	0.00033	0.0010	mg/l		8270C	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.00026	0.010	mg/l		8270C	12/09/14	1
2-Chlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dichlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dimethylphenol	U	0.00062	0.010	mg/l		8270C	12/09/14	1
4,6-Dinitro-2-methylphenol	U	0.0026	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrophenol	U	0.0032	0.010	mg/l		8270C	12/09/14	1
2-Nitrophenol	U	0.00032	0.010	mg/l		8270C	12/09/14	1
4-Nitrophenol	U	0.0020	0.010	mg/l		8270C	12/09/14	1
Pentachlorophenol	U	0.00031	0.010	mg/l		8270C	12/09/14	1
Phenol	0.0032	0.00033	0.010	mg/l	J	8270C	12/09/14	1
2,4,6-Trichlorophenol	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Surrogate Recovery								

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-07

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-7

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 11:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	40.3			% Rec.		8270C	12/09/14	1
Phenol-d5	30.9			% Rec.		8270C	12/09/14	1
Nitrobenzene-d5	60.9			% Rec.		8270C	12/09/14	1
2-Fluorobiphenyl	68.3			% Rec.		8270C	12/09/14	1
2,4,6-Tribromophenol	81.4			% Rec.		8270C	12/09/14	1
p-Terphenyl-d14	69.4			% Rec.		8270C	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-08

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-8R

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 09:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	12/08/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	12/08/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	12/08/14	1
Benzene	0.084	0.00033	0.0010	mg/l		8260B	12/08/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Bromoform	U	0.00047	0.0010	mg/l	J3	8260B	12/08/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	12/08/14	1
n-Butylbenzene	0.00091	0.00036	0.0010	mg/l	J	8260B	12/08/14	1
sec-Butylbenzene	0.00048	0.00036	0.0010	mg/l	J	8260B	12/08/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	12/08/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	12/08/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	12/08/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	12/08/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	12/08/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	12/08/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	12/08/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	12/08/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	12/08/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l	J4	8260B	12/08/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/08/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
Ethylbenzene	0.089	0.00038	0.0010	mg/l		8260B	12/08/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Isopropylbenzene	0.020	0.00033	0.0010	mg/l		8260B	12/08/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-08

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-8R

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 09:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	12/08/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	12/08/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	12/08/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l	J3	8260B	12/08/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Naphthalene	0.40	0.010	0.050	mg/l		8260B	12/09/14	10
n-Propylbenzene	0.0036	0.00035	0.0010	mg/l		8260B	12/08/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	12/08/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	12/08/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	12/08/14	1
Toluene	0.0049	0.00078	0.0050	mg/l	J	8260B	12/08/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	12/08/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	12/08/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	12/08/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	12/08/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	12/08/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l	J3	8260B	12/08/14	1
1,2,4-Trimethylbenzene	0.033	0.00037	0.0010	mg/l		8260B	12/08/14	1
1,2,3-Trimethylbenzene	0.032	0.00032	0.0010	mg/l		8260B	12/08/14	1
1,3,5-Trimethylbenzene	0.0080	0.00039	0.0010	mg/l		8260B	12/08/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	12/08/14	1
Xylenes, Total	0.074	0.0011	0.0030	mg/l		8260B	12/08/14	1
Surrogate Recovery								
Toluene-d8	109.			% Rec.		8260B	12/08/14	1
Dibromofluoromethane	107.			% Rec.		8260B	12/08/14	1
4-Bromofluorobenzene	107.			% Rec.		8260B	12/08/14	1
Base/Neutral Extractables								
Acenaphthene	0.024	0.00032	0.0010	mg/l		8270C	12/09/14	1
Acenaphthylene	0.0030	0.00031	0.0010	mg/l		8270C	12/09/14	1
Anthracene	0.00036	0.00029	0.0010	mg/l	J	8270C	12/09/14	1
Benzidine	U	0.0043	0.010	mg/l		8270C	12/09/14	1
Benzo(a)anthracene	U	0.00032	0.0010	mg/l		8270C	12/09/14	1
Benzo(b)fluoranthene	U	0.00027	0.0010	mg/l		8270C	12/09/14	1
Benzo(k)fluoranthene	U	0.00036	0.0010	mg/l		8270C	12/09/14	1
Benzo(g,h,i)perylene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Benzo(a)pyrene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Bis(2-chlorethoxy)methane	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroethyl)ether	U	0.0016	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroisopropyl)ether	U	0.00044	0.010	mg/l		8270C	12/09/14	1

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REPORT OF ANALYSIS

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December 12, 2014

ESC Sample # : L737329-08

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-8R

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 09:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromophenyl-phenylether	U	0.00034	0.010	mg/l		8270C	12/09/14	1
2-Chloronaphthalene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
4-Chlorophenyl-phenylether	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Chrysene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Dibenz(a,h)anthracene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
3,3-Dichlorobenzidine	U	0.0020	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrotoluene	U	0.0016	0.010	mg/l		8270C	12/09/14	1
2,6-Dinitrotoluene	U	0.00028	0.010	mg/l		8270C	12/09/14	1
Fluoranthene	U	0.00031	0.0010	mg/l		8270C	12/09/14	1
Fluorene	0.0010	0.00032	0.0010	mg/l		8270C	12/09/14	1
Hexachlorobenzene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Hexachlorocyclopentadiene	U	0.0023	0.010	mg/l		8270C	12/09/14	1
Hexachloroethane	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Indeno(1,2,3-cd)pyrene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
Isophorone	U	0.00027	0.010	mg/l		8270C	12/09/14	1
Naphthalene	0.023	0.00037	0.0010	mg/l		8270C	12/09/14	1
Nitrobenzene	U	0.00037	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodimethylamine	U	0.0013	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodiphenylamine	U	0.00030	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodi-n-propylamine	U	0.00040	0.010	mg/l		8270C	12/09/14	1
Phenanthrene	0.00038	0.00037	0.0010	mg/l	J	8270C	12/09/14	1
Benzylbutyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Bis(2-ethylhexyl)phthalate	0.00098	0.00071	0.0030	mg/l	J	8270C	12/09/14	1
Di-n-butyl phthalate	U	0.00027	0.0030	mg/l		8270C	12/09/14	1
Diethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Dimethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Di-n-octyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Pyrene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.00026	0.010	mg/l		8270C	12/09/14	1
2-Chlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dichlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dimethylphenol	U	0.00062	0.010	mg/l		8270C	12/09/14	1
4,6-Dinitro-2-methylphenol	U	0.0026	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrophenol	U	0.0032	0.010	mg/l		8270C	12/09/14	1
2-Nitrophenol	U	0.00032	0.010	mg/l		8270C	12/09/14	1
4-Nitrophenol	U	0.0020	0.010	mg/l		8270C	12/09/14	1
Pentachlorophenol	U	0.00031	0.010	mg/l		8270C	12/09/14	1
Phenol	U	0.00033	0.010	mg/l		8270C	12/09/14	1
2,4,6-Trichlorophenol	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Surrogate Recovery								

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-08

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-8R

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 09:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	22.8			% Rec.		8270C	12/09/14	1
Phenol-d5	13.8			% Rec.		8270C	12/09/14	1
Nitrobenzene-d5	64.6			% Rec.		8270C	12/09/14	1
2-Fluorobiphenyl	70.3			% Rec.		8270C	12/09/14	1
2,4,6-Tribromophenol	75.3			% Rec.		8270C	12/09/14	1
p-Terphenyl-d14	71.6			% Rec.		8270C	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-09

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-10

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 10:25

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	12/09/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	12/09/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	12/09/14	1
Benzene	0.014	0.00033	0.0010	mg/l		8260B	12/09/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	12/09/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	12/09/14	1
n-Butylbenzene	0.0010	0.00036	0.0010	mg/l		8260B	12/09/14	1
sec-Butylbenzene	0.00041	0.00036	0.0010	mg/l	J	8260B	12/09/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	12/09/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	12/09/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	12/09/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	12/09/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	12/09/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	12/09/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	12/09/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	12/09/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	12/09/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	12/09/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	12/09/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/09/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/09/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
Ethylbenzene	0.040	0.00038	0.0010	mg/l		8260B	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
Isopropylbenzene	0.019	0.00033	0.0010	mg/l		8260B	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-09

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-10

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 10:25

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.0034	0.00035	0.0010	mg/l		8260B	12/09/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	12/09/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l	J4	8260B	12/09/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	12/09/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
Naphthalene	0.46	0.020	0.10	mg/l		8260B	12/11/14	20
n-Propylbenzene	0.0037	0.00035	0.0010	mg/l		8260B	12/09/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	12/09/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	12/09/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	12/09/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
Toluene	0.0075	0.00078	0.0050	mg/l		8260B	12/09/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	12/09/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	12/09/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	12/09/14	1
1,2,4-Trimethylbenzene	0.049	0.00037	0.0010	mg/l		8260B	12/09/14	1
1,2,3-Trimethylbenzene	0.031	0.00032	0.0010	mg/l		8260B	12/09/14	1
1,3,5-Trimethylbenzene	0.013	0.00039	0.0010	mg/l		8260B	12/09/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
Xylenes, Total	0.065	0.0011	0.0030	mg/l		8260B	12/09/14	1
Surrogate Recovery								
Toluene-d8	106.			% Rec.		8260B	12/09/14	1
Dibromofluoromethane	105.			% Rec.		8260B	12/09/14	1
4-Bromofluorobenzene	106.			% Rec.		8260B	12/09/14	1
Base/Neutral Extractables								
Acenaphthene	0.15	0.00032	0.0010	mg/l		8270C	12/09/14	1
Acenaphthylene	0.060	0.00031	0.0010	mg/l		8270C	12/09/14	1
Anthracene	0.0099	0.00029	0.0010	mg/l		8270C	12/09/14	1
Benzidine	U	0.0043	0.010	mg/l		8270C	12/09/14	1
Benzo(a)anthracene	U	0.00032	0.0010	mg/l		8270C	12/09/14	1
Benzo(b)fluoranthene	U	0.00027	0.0010	mg/l		8270C	12/09/14	1
Benzo(k)fluoranthene	U	0.00036	0.0010	mg/l		8270C	12/09/14	1
Benzo(g,h,i)perylene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Benzo(a)pyrene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Bis(2-chlorethoxy)methane	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroethyl)ether	U	0.0016	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroisopropyl)ether	U	0.00044	0.010	mg/l		8270C	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-09

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-10

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 10:25

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromophenyl-phenylether	U	0.00034	0.010	mg/l		8270C	12/09/14	1
2-Chloronaphthalene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
4-Chlorophenyl-phenylether	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Chrysene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Dibenz(a,h)anthracene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
3,3-Dichlorobenzidine	U	0.0020	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrotoluene	U	0.0016	0.010	mg/l		8270C	12/09/14	1
2,6-Dinitrotoluene	U	0.00028	0.010	mg/l		8270C	12/09/14	1
Fluoranthene	0.0030	0.00031	0.0010	mg/l		8270C	12/09/14	1
Fluorene	0.0099	0.00032	0.0010	mg/l		8270C	12/09/14	1
Hexachlorobenzene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Hexachlorocyclopentadiene	U	0.0023	0.010	mg/l		8270C	12/09/14	1
Hexachloroethane	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Indeno(1,2,3-cd)pyrene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
Isophorone	U	0.00027	0.010	mg/l		8270C	12/09/14	1
Naphthalene	0.31	0.0019	0.0050	mg/l		8270C	12/11/14	5
Nitrobenzene	U	0.00037	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodimethylamine	U	0.0013	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodiphenylamine	U	0.00030	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodi-n-propylamine	U	0.00040	0.010	mg/l		8270C	12/09/14	1
Phenanthrene	0.049	0.00037	0.0010	mg/l		8270C	12/09/14	1
Benzylbutyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Bis(2-ethylhexyl)phthalate	U	0.00071	0.0030	mg/l		8270C	12/09/14	1
Di-n-butyl phthalate	U	0.00027	0.0030	mg/l		8270C	12/09/14	1
Diethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Dimethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Di-n-octyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Pyrene	0.0041	0.00033	0.0010	mg/l		8270C	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.00026	0.010	mg/l		8270C	12/09/14	1
2-Chlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dichlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dimethylphenol	U	0.00062	0.010	mg/l		8270C	12/09/14	1
4,6-Dinitro-2-methylphenol	U	0.0026	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrophenol	U	0.0032	0.010	mg/l		8270C	12/09/14	1
2-Nitrophenol	U	0.00032	0.010	mg/l		8270C	12/09/14	1
4-Nitrophenol	U	0.0020	0.010	mg/l		8270C	12/09/14	1
Pentachlorophenol	U	0.00031	0.010	mg/l		8270C	12/09/14	1
Phenol	U	0.00033	0.010	mg/l		8270C	12/09/14	1
2,4,6-Trichlorophenol	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Surrogate Recovery								

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MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-09

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-10

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 10:25

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	43.9			% Rec.		8270C	12/09/14	1
Phenol-d5	31.9			% Rec.		8270C	12/09/14	1
Nitrobenzene-d5	73.7			% Rec.		8270C	12/09/14	1
2-Fluorobiphenyl	78.3			% Rec.		8270C	12/09/14	1
2,4,6-Tribromophenol	88.7			% Rec.		8270C	12/09/14	1
p-Terphenyl-d14	77.9			% Rec.		8270C	12/09/14	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-10

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-11

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 15:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	12/09/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	12/09/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	12/09/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	12/09/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	12/09/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	12/09/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/09/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/09/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	12/09/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	12/09/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	12/09/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	12/09/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	12/09/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	12/09/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	12/09/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	12/09/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	12/09/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	12/09/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	12/09/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/09/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/09/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
Isopropylbenzene	0.00052	0.00033	0.0010	mg/l	J	8260B	12/09/14	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-10

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-11

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 15:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	12/09/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l	J4	8260B	12/09/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	12/09/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
Naphthalene	0.0020	0.0010	0.0050	mg/l	J	8260B	12/11/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	12/09/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	12/09/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	12/09/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	12/09/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	12/09/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	12/09/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	12/09/14	1
1,2,4-Trimethylbenzene	0.00045	0.00037	0.0010	mg/l	J	8260B	12/09/14	1
1,2,3-Trimethylbenzene	0.0011	0.00032	0.0010	mg/l		8260B	12/09/14	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	12/09/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
Xylenes, Total	0.0040	0.0011	0.0030	mg/l		8260B	12/09/14	1
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	12/09/14	1
Dibromofluoromethane	109.			% Rec.		8260B	12/09/14	1
4-Bromofluorobenzene	112.			% Rec.		8260B	12/09/14	1
Base/Neutral Extractables								
Acenaphthene	0.0032	0.00032	0.0010	mg/l		8270C	12/09/14	1
Acenaphthylene	0.0048	0.00031	0.0010	mg/l		8270C	12/09/14	1
Anthracene	0.0066	0.00029	0.0010	mg/l		8270C	12/09/14	1
Benzidine	U	0.0043	0.010	mg/l		8270C	12/09/14	1
Benzo(a)anthracene	0.00051	0.00032	0.0010	mg/l	J	8270C	12/09/14	1
Benzo(b)fluoranthene	U	0.00027	0.0010	mg/l		8270C	12/09/14	1
Benzo(k)fluoranthene	U	0.00036	0.0010	mg/l		8270C	12/09/14	1
Benzo(g,h,i)perylene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Benzo(a)pyrene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Bis(2-chlorethoxy)methane	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroethyl)ether	U	0.0016	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroisopropyl)ether	U	0.00044	0.010	mg/l		8270C	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-10

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-11

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 15:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromophenyl-phenylether	U	0.00034	0.010	mg/l		8270C	12/09/14	1
2-Chloronaphthalene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
4-Chlorophenyl-phenylether	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Chrysene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Dibenz(a,h)anthracene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
3,3-Dichlorobenzidine	U	0.0020	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrotoluene	U	0.0016	0.010	mg/l		8270C	12/09/14	1
2,6-Dinitrotoluene	U	0.00028	0.010	mg/l		8270C	12/09/14	1
Fluoranthene	0.0032	0.00031	0.0010	mg/l		8270C	12/09/14	1
Fluorene	0.0014	0.00032	0.0010	mg/l		8270C	12/09/14	1
Hexachlorobenzene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Hexachlorocyclopentadiene	U	0.0023	0.010	mg/l		8270C	12/09/14	1
Hexachloroethane	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Indeno(1,2,3-cd)pyrene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
Isophorone	U	0.00027	0.010	mg/l		8270C	12/09/14	1
Naphthalene	0.00040	0.00037	0.0010	mg/l	J	8270C	12/09/14	1
Nitrobenzene	U	0.00037	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodimethylamine	U	0.0013	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodiphenylamine	U	0.00030	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodi-n-propylamine	U	0.00040	0.010	mg/l		8270C	12/09/14	1
Phenanthrene	0.0080	0.00037	0.0010	mg/l		8270C	12/09/14	1
Benzylbutyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Bis(2-ethylhexyl)phthalate	0.00083	0.00071	0.0030	mg/l	J	8270C	12/09/14	1
Di-n-butyl phthalate	0.00051	0.00027	0.0030	mg/l	J	8270C	12/09/14	1
Diethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Dimethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Di-n-octyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Pyrene	0.0044	0.00033	0.0010	mg/l		8270C	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.00026	0.010	mg/l		8270C	12/09/14	1
2-Chlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dichlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dimethylphenol	U	0.00062	0.010	mg/l		8270C	12/09/14	1
4,6-Dinitro-2-methylphenol	U	0.0026	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrophenol	U	0.0032	0.010	mg/l		8270C	12/09/14	1
2-Nitrophenol	U	0.00032	0.010	mg/l		8270C	12/09/14	1
4-Nitrophenol	U	0.0020	0.010	mg/l		8270C	12/09/14	1
Pentachlorophenol	U	0.00031	0.010	mg/l		8270C	12/09/14	1
Phenol	U	0.00033	0.010	mg/l		8270C	12/09/14	1
2,4,6-Trichlorophenol	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Surrogate Recovery								

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-10

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-11

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 15:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	30.8			% Rec.		8270C	12/09/14	1
Phenol-d5	24.3			% Rec.		8270C	12/09/14	1
Nitrobenzene-d5	51.6			% Rec.		8270C	12/09/14	1
2-Fluorobiphenyl	59.5			% Rec.		8270C	12/09/14	1
2,4,6-Tribromophenol	60.6			% Rec.		8270C	12/09/14	1
p-Terphenyl-d14	54.7			% Rec.		8270C	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-11

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-12

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 09:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	12/09/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	12/09/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	12/09/14	1
Benzene	0.0087	0.00033	0.0010	mg/l		8260B	12/09/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	12/09/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	12/09/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/09/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/09/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	12/09/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	12/09/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	12/09/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	12/09/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	12/09/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	12/09/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	12/09/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	12/09/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	12/09/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	12/09/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	12/09/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/09/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/09/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
Ethylbenzene	0.0024	0.00038	0.0010	mg/l		8260B	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
Isopropylbenzene	0.0017	0.00033	0.0010	mg/l		8260B	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-11

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-12

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 09:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.0056	0.00035	0.0010	mg/l		8260B	12/09/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	12/09/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l	J4	8260B	12/09/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	12/09/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
Naphthalene	0.19	0.010	0.050	mg/l		8260B	12/11/14	10
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	12/09/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	12/09/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	12/09/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
Toluene	0.0018	0.00078	0.0050	mg/l	J	8260B	12/09/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	12/09/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	12/09/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	12/09/14	1
1,2,4-Trimethylbenzene	0.032	0.00037	0.0010	mg/l		8260B	12/09/14	1
1,2,3-Trimethylbenzene	0.019	0.00032	0.0010	mg/l		8260B	12/09/14	1
1,3,5-Trimethylbenzene	0.017	0.00039	0.0010	mg/l		8260B	12/09/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
Xylenes, Total	0.060	0.0011	0.0030	mg/l		8260B	12/09/14	1
Surrogate Recovery								
Toluene-d8	99.1			% Rec.		8260B	12/09/14	1
Dibromofluoromethane	112.			% Rec.		8260B	12/09/14	1
4-Bromofluorobenzene	99.6			% Rec.		8260B	12/09/14	1
Base/Neutral Extractables								
Acenaphthene	0.092	0.00032	0.0010	mg/l		8270C	12/09/14	1
Acenaphthylene	0.012	0.00031	0.0010	mg/l		8270C	12/09/14	1
Anthracene	0.0061	0.00029	0.0010	mg/l		8270C	12/09/14	1
Benzidine	U	0.0043	0.010	mg/l		8270C	12/09/14	1
Benzo(a)anthracene	0.00086	0.00032	0.0010	mg/l	J	8270C	12/09/14	1
Benzo(b)fluoranthene	0.00036	0.00027	0.0010	mg/l	J	8270C	12/09/14	1
Benzo(k)fluoranthene	U	0.00036	0.0010	mg/l		8270C	12/09/14	1
Benzo(g,h,i)perylene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Benzo(a)pyrene	0.00041	0.00034	0.0010	mg/l	J	8270C	12/09/14	1
Bis(2-chlorethoxy)methane	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroethyl)ether	U	0.0016	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroisopropyl)ether	U	0.00044	0.010	mg/l		8270C	12/09/14	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-11

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-12

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 09:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromophenyl-phenylether	U	0.00034	0.010	mg/l		8270C	12/09/14	1
2-Chloronaphthalene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
4-Chlorophenyl-phenylether	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Chrysene	0.00057	0.00033	0.0010	mg/l	J	8270C	12/09/14	1
Dibenz(a,h)anthracene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
3,3-Dichlorobenzidine	U	0.0020	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrotoluene	U	0.0016	0.010	mg/l		8270C	12/09/14	1
2,6-Dinitrotoluene	U	0.00028	0.010	mg/l		8270C	12/09/14	1
Fluoranthene	0.0035	0.00031	0.0010	mg/l		8270C	12/09/14	1
Fluorene	0.027	0.00032	0.0010	mg/l		8270C	12/09/14	1
Hexachlorobenzene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Hexachlorocyclopentadiene	U	0.0023	0.010	mg/l		8270C	12/09/14	1
Hexachloroethane	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Indeno(1,2,3-cd)pyrene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
Isophorone	U	0.00027	0.010	mg/l		8270C	12/09/14	1
Naphthalene	0.00070	0.00037	0.0010	mg/l	J	8270C	12/09/14	1
Nitrobenzene	U	0.00037	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodimethylamine	U	0.0013	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodiphenylamine	U	0.00030	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodi-n-propylamine	U	0.00040	0.010	mg/l		8270C	12/09/14	1
Phenanthrene	0.00072	0.00037	0.0010	mg/l	J	8270C	12/09/14	1
Benzylbutyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Bis(2-ethylhexyl)phthalate	U	0.00071	0.0030	mg/l		8270C	12/09/14	1
Di-n-butyl phthalate	U	0.00027	0.0030	mg/l		8270C	12/09/14	1
Diethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Dimethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Di-n-octyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Pyrene	0.0044	0.00033	0.0010	mg/l		8270C	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.00026	0.010	mg/l		8270C	12/09/14	1
2-Chlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dichlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dimethylphenol	U	0.00062	0.010	mg/l		8270C	12/09/14	1
4,6-Dinitro-2-methylphenol	U	0.0026	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrophenol	U	0.0032	0.010	mg/l		8270C	12/09/14	1
2-Nitrophenol	U	0.00032	0.010	mg/l		8270C	12/09/14	1
4-Nitrophenol	U	0.0020	0.010	mg/l		8270C	12/09/14	1
Pentachlorophenol	U	0.00031	0.010	mg/l		8270C	12/09/14	1
Phenol	U	0.00033	0.010	mg/l		8270C	12/09/14	1
2,4,6-Trichlorophenol	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Surrogate Recovery								

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Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-11

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-12

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 09:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	25.9			% Rec.		8270C	12/09/14	1
Phenol-d5	20.7			% Rec.		8270C	12/09/14	1
Nitrobenzene-d5	62.2			% Rec.		8270C	12/09/14	1
2-Fluorobiphenyl	71.0			% Rec.		8270C	12/09/14	1
2,4,6-Tribromophenol	72.3			% Rec.		8270C	12/09/14	1
p-Terphenyl-d14	69.8			% Rec.		8270C	12/09/14	1

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REPORT OF ANALYSIS

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USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-12

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-13

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 15:27

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	12/09/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	12/09/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	12/09/14	1
Benzene	U	0.00033	0.0010	mg/l		8260B	12/09/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	12/09/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	12/09/14	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/09/14	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	12/09/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	12/09/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	12/09/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	12/09/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	12/09/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	12/09/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	12/09/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	12/09/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	12/09/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	12/09/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	12/09/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	12/09/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/09/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/09/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-12

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-13

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 15:27

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	12/09/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l	J4	8260B	12/09/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	12/09/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
Naphthalene	U	0.0010	0.0050	mg/l		8260B	12/11/14	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	12/09/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	12/09/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	12/09/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
Toluene	U	0.00078	0.0050	mg/l		8260B	12/09/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	12/09/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	12/09/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	12/09/14	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	12/09/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	12/09/14	1
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	12/09/14	1
Dibromofluoromethane	107.			% Rec.		8260B	12/09/14	1
4-Bromofluorobenzene	110.			% Rec.		8260B	12/09/14	1
Base/Neutral Extractables								
Acenaphthene	U	0.00032	0.0010	mg/l		8270C	12/09/14	1
Acenaphthylene	0.00040	0.00031	0.0010	mg/l	J	8270C	12/09/14	1
Anthracene	0.00046	0.00029	0.0010	mg/l	J	8270C	12/09/14	1
Benzidine	U	0.0043	0.010	mg/l		8270C	12/09/14	1
Benzo(a)anthracene	U	0.00032	0.0010	mg/l		8270C	12/09/14	1
Benzo(b)fluoranthene	U	0.00027	0.0010	mg/l		8270C	12/09/14	1
Benzo(k)fluoranthene	U	0.00036	0.0010	mg/l		8270C	12/09/14	1
Benzo(g,h,i)perylene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Benzo(a)pyrene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Bis(2-chlorethoxy)methane	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroethyl)ether	U	0.0016	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroisopropyl)ether	U	0.00044	0.010	mg/l		8270C	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-12

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-13

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 15:27

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromophenyl-phenylether	U	0.00034	0.010	mg/l		8270C	12/09/14	1
2-Chloronaphthalene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
4-Chlorophenyl-phenylether	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Chrysene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Dibenz(a,h)anthracene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
3,3-Dichlorobenzidine	U	0.0020	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrotoluene	U	0.0016	0.010	mg/l		8270C	12/09/14	1
2,6-Dinitrotoluene	U	0.00028	0.010	mg/l		8270C	12/09/14	1
Fluoranthene	0.00040	0.00031	0.0010	mg/l	J	8270C	12/09/14	1
Fluorene	U	0.00032	0.0010	mg/l		8270C	12/09/14	1
Hexachlorobenzene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Hexachlorocyclopentadiene	U	0.0023	0.010	mg/l		8270C	12/09/14	1
Hexachloroethane	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Indeno(1,2,3-cd)pyrene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
Isophorone	U	0.00027	0.010	mg/l		8270C	12/09/14	1
Naphthalene	0.00040	0.00037	0.0010	mg/l	J	8270C	12/09/14	1
Nitrobenzene	U	0.00037	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodimethylamine	U	0.0013	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodiphenylamine	U	0.00030	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodi-n-propylamine	U	0.00040	0.010	mg/l		8270C	12/09/14	1
Phenanthrene	0.0010	0.00037	0.0010	mg/l		8270C	12/09/14	1
Benzylbutyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Bis(2-ethylhexyl)phthalate	U	0.00071	0.0030	mg/l		8270C	12/09/14	1
Di-n-butyl phthalate	0.00049	0.00027	0.0030	mg/l	J	8270C	12/09/14	1
Diethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Dimethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Di-n-octyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Pyrene	0.00066	0.00033	0.0010	mg/l	J	8270C	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.00026	0.010	mg/l		8270C	12/09/14	1
2-Chlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dichlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dimethylphenol	U	0.00062	0.010	mg/l		8270C	12/09/14	1
4,6-Dinitro-2-methylphenol	U	0.0026	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrophenol	U	0.0032	0.010	mg/l		8270C	12/09/14	1
2-Nitrophenol	U	0.00032	0.010	mg/l		8270C	12/09/14	1
4-Nitrophenol	U	0.0020	0.010	mg/l		8270C	12/09/14	1
Pentachlorophenol	U	0.00031	0.010	mg/l		8270C	12/09/14	1
Phenol	U	0.00033	0.010	mg/l		8270C	12/09/14	1
2,4,6-Trichlorophenol	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Surrogate Recovery								

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-12

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-13

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/03/14 15:27

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	39.9			% Rec.		8270C	12/09/14	1
Phenol-d5	32.6			% Rec.		8270C	12/09/14	1
Nitrobenzene-d5	44.7			% Rec.		8270C	12/09/14	1
2-Fluorobiphenyl	51.4			% Rec.		8270C	12/09/14	1
2,4,6-Tribromophenol	61.5			% Rec.		8270C	12/09/14	1
p-Terphenyl-d14	47.9			% Rec.		8270C	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-13

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : DUP-120414

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 10:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	12/09/14	1
Acrolein	U	0.0089	0.050	mg/l		8260B	12/09/14	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	12/09/14	1
Benzene	0.016	0.00033	0.0010	mg/l		8260B	12/09/14	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	12/09/14	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	12/09/14	1
n-Butylbenzene	0.0011	0.00036	0.0010	mg/l		8260B	12/09/14	1
sec-Butylbenzene	0.00042	0.00036	0.0010	mg/l	J	8260B	12/09/14	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	12/09/14	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	12/09/14	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	12/09/14	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	12/09/14	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	12/09/14	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	12/09/14	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	12/09/14	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	12/09/14	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	12/09/14	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	12/09/14	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	12/09/14	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	12/09/14	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/09/14	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	12/09/14	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
Ethylbenzene	0.044	0.00038	0.0010	mg/l		8260B	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
Isopropylbenzene	0.020	0.00033	0.0010	mg/l		8260B	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-13

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : DUP-120414

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 10:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.0045	0.00035	0.0010	mg/l		8260B	12/09/14	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	12/09/14	1
Methylene Chloride	U	0.0010	0.0050	mg/l	J4	8260B	12/09/14	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	12/09/14	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
Naphthalene	0.49	0.020	0.10	mg/l		8260B	12/11/14	20
n-Propylbenzene	0.0040	0.00035	0.0010	mg/l		8260B	12/09/14	1
Styrene	U	0.00031	0.0010	mg/l		8260B	12/09/14	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	12/09/14	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	12/09/14	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	12/09/14	1
Toluene	0.0080	0.00078	0.0050	mg/l		8260B	12/09/14	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	12/09/14	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	12/09/14	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	12/09/14	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	12/09/14	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	12/09/14	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	12/09/14	1
1,2,4-Trimethylbenzene	0.055	0.00037	0.0010	mg/l		8260B	12/09/14	1
1,2,3-Trimethylbenzene	0.034	0.00032	0.0010	mg/l		8260B	12/09/14	1
1,3,5-Trimethylbenzene	0.015	0.00039	0.0010	mg/l		8260B	12/09/14	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	12/09/14	1
Xylenes, Total	0.072	0.0011	0.0030	mg/l		8260B	12/09/14	1
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	12/09/14	1
Dibromofluoromethane	111.			% Rec.		8260B	12/09/14	1
4-Bromofluorobenzene	105.			% Rec.		8260B	12/09/14	1
Base/Neutral Extractables								
Acenaphthene	0.14	0.00032	0.0010	mg/l		8270C	12/09/14	1
Acenaphthylene	0.058	0.00031	0.0010	mg/l		8270C	12/09/14	1
Anthracene	0.0096	0.00029	0.0010	mg/l		8270C	12/09/14	1
Benzidine	U	0.0043	0.010	mg/l		8270C	12/09/14	1
Benzo(a)anthracene	U	0.00032	0.0010	mg/l		8270C	12/09/14	1
Benzo(b)fluoranthene	U	0.00027	0.0010	mg/l		8270C	12/09/14	1
Benzo(k)fluoranthene	U	0.00036	0.0010	mg/l		8270C	12/09/14	1
Benzo(g,h,i)perylene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Benzo(a)pyrene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Bis(2-chlorethoxy)methane	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroethyl)ether	U	0.0016	0.010	mg/l		8270C	12/09/14	1
Bis(2-chloroisopropyl)ether	U	0.00044	0.010	mg/l		8270C	12/09/14	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-13

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : DUP-120414

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 10:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromophenyl-phenylether	U	0.00034	0.010	mg/l		8270C	12/09/14	1
2-Chloronaphthalene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
4-Chlorophenyl-phenylether	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Chrysene	U	0.00033	0.0010	mg/l		8270C	12/09/14	1
Dibenz(a,h)anthracene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
3,3-Dichlorobenzidine	U	0.0020	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrotoluene	U	0.0016	0.010	mg/l		8270C	12/09/14	1
2,6-Dinitrotoluene	U	0.00028	0.010	mg/l		8270C	12/09/14	1
Fluoranthene	0.0030	0.00031	0.0010	mg/l		8270C	12/09/14	1
Fluorene	0.0097	0.00032	0.0010	mg/l		8270C	12/09/14	1
Hexachlorobenzene	U	0.00034	0.0010	mg/l		8270C	12/09/14	1
Hexachloro-1,3-butadiene	U	0.00033	0.010	mg/l		8270C	12/09/14	1
Hexachlorocyclopentadiene	U	0.0023	0.010	mg/l		8270C	12/09/14	1
Hexachloroethane	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Indeno(1,2,3-cd)pyrene	U	0.00028	0.0010	mg/l		8270C	12/09/14	1
Isophorone	U	0.00027	0.010	mg/l		8270C	12/09/14	1
Naphthalene	0.35	0.0019	0.0050	mg/l		8270C	12/11/14	5
Nitrobenzene	U	0.00037	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodimethylamine	U	0.0013	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodiphenylamine	U	0.00030	0.010	mg/l		8270C	12/09/14	1
n-Nitrosodi-n-propylamine	U	0.00040	0.010	mg/l		8270C	12/09/14	1
Phenanthrene	0.048	0.00037	0.0010	mg/l		8270C	12/09/14	1
Benzylbutyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Bis(2-ethylhexyl)phthalate	0.00072	0.00071	0.0030	mg/l	J	8270C	12/09/14	1
Di-n-butyl phthalate	U	0.00027	0.0030	mg/l		8270C	12/09/14	1
Diethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Dimethyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Di-n-octyl phthalate	U	0.00028	0.0030	mg/l		8270C	12/09/14	1
Pyrene	0.0041	0.00033	0.0010	mg/l		8270C	12/09/14	1
1,2,4-Trichlorobenzene	U	0.00036	0.010	mg/l		8270C	12/09/14	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.00026	0.010	mg/l		8270C	12/09/14	1
2-Chlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dichlorophenol	U	0.00028	0.010	mg/l		8270C	12/09/14	1
2,4-Dimethylphenol	U	0.00062	0.010	mg/l		8270C	12/09/14	1
4,6-Dinitro-2-methylphenol	U	0.0026	0.010	mg/l		8270C	12/09/14	1
2,4-Dinitrophenol	U	0.0032	0.010	mg/l		8270C	12/09/14	1
2-Nitrophenol	U	0.00032	0.010	mg/l		8270C	12/09/14	1
4-Nitrophenol	U	0.0020	0.010	mg/l		8270C	12/09/14	1
Pentachlorophenol	U	0.00031	0.010	mg/l		8270C	12/09/14	1
Phenol	U	0.00033	0.010	mg/l		8270C	12/09/14	1
2,4,6-Trichlorophenol	U	0.00030	0.010	mg/l		8270C	12/09/14	1
Surrogate Recovery								

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

December 12, 2014

ESC Sample # : L737329-13

Date Received : December 05, 2014
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : DUP-120414

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 12/04/14 10:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Fluorophenol	42.2			% Rec.		8270C	12/09/14	1
Phenol-d5	29.6			% Rec.		8270C	12/09/14	1
Nitrobenzene-d5	67.9			% Rec.		8270C	12/09/14	1
2-Fluorobiphenyl	74.0			% Rec.		8270C	12/09/14	1
2,4,6-Tribromophenol	81.9			% Rec.		8270C	12/09/14	1
p-Terphenyl-d14	74.1			% Rec.		8270C	12/09/14	1

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L737329-01	WG758515	SAMP	Bromoform	R3008709	J3
	WG758515	SAMP	1,3-Dichloropropane	R3008709	J4
	WG758515	SAMP	4-Methyl-2-pentanone (MIBK)	R3008709	J3
	WG758515	SAMP	1,2,3-Trichloropropane	R3008709	J3
	WG758449	SAMP	Benzo(g,h,i)perylene	R3008840	J3
	WG758449	SAMP	Bis(2-ethylhexyl)phthalate	R3008840	J
	WG758449	SAMP	Di-n-butyl phthalate	R3008840	J
L737329-02	WG758515	SAMP	Bromoform	R3008709	J3
	WG758515	SAMP	1,3-Dichloropropane	R3008709	J4
	WG758515	SAMP	4-Methyl-2-pentanone (MIBK)	R3008709	J3
	WG758515	SAMP	1,2,3-Trichloropropane	R3008709	J3
	WG758449	SAMP	Benzo(g,h,i)perylene	R3008840	J3
	WG758449	SAMP	Bis(2-ethylhexyl)phthalate	R3008840	J
	WG758449	SAMP	Di-n-butyl phthalate	R3008840	J
	WG758449	SAMP	Pyrene	R3008840	J
L737329-03	WG758515	SAMP	Bromoform	R3008709	J3
	WG758515	SAMP	sec-Butylbenzene	R3008709	J
	WG758515	SAMP	1,3-Dichloropropane	R3008709	J4
	WG758515	SAMP	4-Methyl-2-pentanone (MIBK)	R3008709	J3
	WG758515	SAMP	1,2,3-Trichloropropane	R3008709	J3
	WG758672	SAMP	Benzo(g,h,i)perylene	R3009204	J
	WG758672	SAMP	Indeno(1,2,3-cd)pyrene	R3009204	J
L737329-04	WG758515	SAMP	Bromoform	R3008709	J3
	WG758515	SAMP	1,3-Dichloropropane	R3008709	J4
	WG758515	SAMP	4-Methyl-2-pentanone (MIBK)	R3008709	J3
	WG758838	SAMP	Naphthalene	R3009173	J
	WG758515	SAMP	1,2,3-Trichloropropane	R3008709	J3
	WG758515	SAMP	1,2,4-Trimethylbenzene	R3008709	J
	WG758515	SAMP	1,2,3-Trimethylbenzene	R3008709	J
	WG758449	SAMP	Benzo(g,h,i)perylene	R3009080	JJ3
	WG758449	SAMP	Indeno(1,2,3-cd)pyrene	R3009080	J
	WG758449	SAMP	Bis(2-ethylhexyl)phthalate	R3009080	J
	WG758449	SAMP	Di-n-butyl phthalate	R3009080	J
	WG758449	SAMP	Diethyl phthalate	R3009080	J
	WG758449	SAMP	Di-n-octyl phthalate	R3009080	J
L737329-05	WG758515	SAMP	Bromoform	R3008709	J3
	WG758515	SAMP	1,3-Dichloropropane	R3008709	J4
	WG758515	SAMP	Ethylbenzene	R3008709	J
	WG758515	SAMP	4-Methyl-2-pentanone (MIBK)	R3008709	J3
	WG758838	SAMP	Naphthalene	R3009173	J
	WG758515	SAMP	1,2,3-Trichloropropane	R3008709	J3
	WG758515	SAMP	1,2,3-Trimethylbenzene	R3008709	J
	WG758669	SAMP	Benzo(b)fluoranthene	R3008899	J
	WG758669	SAMP	Benzo(g,h,i)perylene	R3008899	J
	WG758669	SAMP	Benzo(a)pyrene	R3008899	J
	WG758669	SAMP	Chrysene	R3008899	J
	WG758669	SAMP	Indeno(1,2,3-cd)pyrene	R3008899	J
	WG758669	SAMP	Naphthalene	R3008899	J
	WG758669	SAMP	Di-n-butyl phthalate	R3008899	J
L737329-06	WG758515	SAMP	Benzene	R3008709	J
	WG758515	SAMP	Bromoform	R3008709	J3
	WG758515	SAMP	1,3-Dichloropropane	R3008709	J4
	WG758515	SAMP	4-Methyl-2-pentanone (MIBK)	R3008709	J3
	WG758515	SAMP	Styrene	R3008709	J
	WG758515	SAMP	1,2,3-Trichloropropane	R3008709	J3
	WG758672	SAMP	Indeno(1,2,3-cd)pyrene	R3009204	J
L737329-07	WG758515	SAMP	Acrolein	R3008709	J5
	WG758515	SAMP	sec-Butylbenzene	R3008709	J
	WG758515	SAMP	2-Chloroethyl vinyl ether	R3008709	J6J3
	WG758515	SAMP	1,3-Dichloropropane	R3008709	J4
	WG758515	SAMP	Ethylbenzene	R3008709	V
	WG758672	SAMP	Acenaphthene	R3009204	V
	WG758672	SAMP	Benzo(a)anthracene	R3009204	J
	WG758672	SAMP	3,3-Dichlorobenzidine	R3009204	J3
	WG758672	SAMP	Hexachloroethane	R3009204	J5
	WG758672	SAMP	Naphthalene	R3009204	V
	WG758672	SAMP	Bis(2-ethylhexyl)phthalate	R3009204	J
	WG758672	SAMP	Phenol	R3009204	J
L737329-08	WG758515	SAMP	Bromoform	R3008709	J3

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
	WG758515	SAMP	n-Butylbenzene	R3008709	J
	WG758515	SAMP	sec-Butylbenzene	R3008709	J
	WG758515	SAMP	1,3-Dichloropropane	R3008709	J4
	WG758515	SAMP	4-Methyl-2-pentanone (MIBK)	R3008709	J3
	WG758515	SAMP	Toluene	R3008709	J
	WG758515	SAMP	1,2,3-Trichloropropane	R3008709	J3
	WG758672	SAMP	Anthracene	R3009204	J
	WG758672	SAMP	Phenanthrene	R3009204	J
	WG758672	SAMP	Bis(2-ethylhexyl)phthalate	R3009204	J
L737329-09	WG758838	SAMP	sec-Butylbenzene	R3009173	J
	WG758838	SAMP	Methylene Chloride	R3009173	J4
L737329-10	WG758838	SAMP	Isopropylbenzene	R3009173	J
	WG758838	SAMP	Methylene Chloride	R3009173	J4
	WG759264	SAMP	Naphthalene	R3009671	J
	WG758838	SAMP	1,2,4-Trimethylbenzene	R3009173	J
	WG758669	SAMP	Benzo(a)anthracene	R3008899	J
	WG758669	SAMP	Naphthalene	R3008899	J
	WG758669	SAMP	Bis(2-ethylhexyl)phthalate	R3008899	J
	WG758669	SAMP	Di-n-butyl phthalate	R3008899	J
L737329-11	WG758838	SAMP	Methylene Chloride	R3009173	J4
	WG758838	SAMP	Toluene	R3009173	J
	WG758672	SAMP	Benzo(a)anthracene	R3009204	J
	WG758672	SAMP	Benzo(b)fluoranthene	R3009204	J
	WG758672	SAMP	Benzo(a)pyrene	R3009204	J
	WG758672	SAMP	Chrysene	R3009204	J
	WG758672	SAMP	Naphthalene	R3009204	J
	WG758672	SAMP	Phenanthrene	R3009204	J
L737329-12	WG758838	SAMP	Methylene Chloride	R3009173	J4
	WG758669	SAMP	Acenaphthylene	R3008899	J
	WG758669	SAMP	Anthracene	R3008899	J
	WG758669	SAMP	Fluoranthene	R3008899	J
	WG758669	SAMP	Naphthalene	R3008899	J
	WG758669	SAMP	Di-n-butyl phthalate	R3008899	J
	WG758669	SAMP	Pyrene	R3008899	J
L737329-13	WG758838	SAMP	sec-Butylbenzene	R3009173	J
	WG758838	SAMP	Methylene Chloride	R3009173	J4
	WG758672	SAMP	Bis(2-ethylhexyl)phthalate	R3009204	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
12/12/14 at 14:15:31

TSR Signing Reports: 296
R5 - Desired TAT

Sample: L737329-01 Account: USAENVGCO Received: 12/05/14 09:30 Due Date: 12/12/14 00:00 RPT Date: 12/12/14 14:14

Sample: L737329-02 Account: USAENVGCO Received: 12/05/14 09:30 Due Date: 12/12/14 00:00 RPT Date: 12/12/14 14:14

Sample: L737329-03 Account: USAENVGCO Received: 12/05/14 09:30 Due Date: 12/12/14 00:00 RPT Date: 12/12/14 14:14

Sample: L737329-04 Account: USAENVGCO Received: 12/05/14 09:30 Due Date: 12/12/14 00:00 RPT Date: 12/12/14 14:14

Sample: L737329-05 Account: USAENVGCO Received: 12/05/14 09:30 Due Date: 12/12/14 00:00 RPT Date: 12/12/14 14:14

Sample: L737329-06 Account: USAENVGCO Received: 12/05/14 09:30 Due Date: 12/12/14 00:00 RPT Date: 12/12/14 14:14

Sample: L737329-07 Account: USAENVGCO Received: 12/05/14 09:30 Due Date: 12/12/14 00:00 RPT Date: 12/12/14 14:14
MS/MSD this sample
Sample: L737329-08 Account: USAENVGCO Received: 12/05/14 09:30 Due Date: 12/12/14 00:00 RPT Date: 12/12/14 14:14

Sample: L737329-09 Account: USAENVGCO Received: 12/05/14 09:30 Due Date: 12/12/14 00:00 RPT Date: 12/12/14 14:14

Sample: L737329-10 Account: USAENVGCO Received: 12/05/14 09:30 Due Date: 12/12/14 00:00 RPT Date: 12/12/14 14:14

Sample: L737329-11 Account: USAENVGCO Received: 12/05/14 09:30 Due Date: 12/12/14 00:00 RPT Date: 12/12/14 14:14

Sample: L737329-12 Account: USAENVGCO Received: 12/05/14 09:30 Due Date: 12/12/14 00:00 RPT Date: 12/12/14 14:14

Sample: L737329-13 Account: USAENVGCO Received: 12/05/14 09:30 Due Date: 12/12/14 00:00 RPT Date: 12/12/14 14:14

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Golden, CO 80401

Quality Assurance Report
Level II

L737329

December 12, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG758515	12/08/14 10:01
1,1,1-Trichloroethane	< .001	mg/l			WG758515	12/08/14 10:01
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG758515	12/08/14 10:01
1,1,2-Trichloroethane	< .001	mg/l			WG758515	12/08/14 10:01
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG758515	12/08/14 10:01
1,1-Dichloroethane	< .001	mg/l			WG758515	12/08/14 10:01
1,1-Dichloroethene	< .001	mg/l			WG758515	12/08/14 10:01
1,1-Dichloropropene	< .001	mg/l			WG758515	12/08/14 10:01
1,2,3-Trichlorobenzene	< .001	mg/l			WG758515	12/08/14 10:01
1,2,3-Trichloropropane	< .001	mg/l			WG758515	12/08/14 10:01
1,2,3-Trimethylbenzene	< .001	mg/l			WG758515	12/08/14 10:01
1,2,4-Trichlorobenzene	< .001	mg/l			WG758515	12/08/14 10:01
1,2,4-Trimethylbenzene	< .001	mg/l			WG758515	12/08/14 10:01
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG758515	12/08/14 10:01
1,2-Dibromoethane	< .001	mg/l			WG758515	12/08/14 10:01
1,2-Dichlorobenzene	< .001	mg/l			WG758515	12/08/14 10:01
1,2-Dichloroethane	< .001	mg/l			WG758515	12/08/14 10:01
1,2-Dichloropropane	< .001	mg/l			WG758515	12/08/14 10:01
1,3,5-Trimethylbenzene	< .001	mg/l			WG758515	12/08/14 10:01
1,3-Dichlorobenzene	< .001	mg/l			WG758515	12/08/14 10:01
1,3-Dichloropropane	< .001	mg/l			WG758515	12/08/14 10:01
1,4-Dichlorobenzene	< .001	mg/l			WG758515	12/08/14 10:01
2,2-Dichloropropane	< .001	mg/l			WG758515	12/08/14 10:01
2-Butanone (MEK)	< .01	mg/l			WG758515	12/08/14 10:01
2-Chloroethyl vinyl ether	< .05	mg/l			WG758515	12/08/14 10:01
2-Chlorotoluene	< .001	mg/l			WG758515	12/08/14 10:01
4-Chlorotoluene	< .001	mg/l			WG758515	12/08/14 10:01
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG758515	12/08/14 10:01
Acetone	< .05	mg/l			WG758515	12/08/14 10:01
Acrolein	< .025	mg/l			WG758515	12/08/14 10:01
Acrylonitrile	< .01	mg/l			WG758515	12/08/14 10:01
Benzene	< .001	mg/l			WG758515	12/08/14 10:01
Bromobenzene	< .001	mg/l			WG758515	12/08/14 10:01
Bromodichloromethane	< .001	mg/l			WG758515	12/08/14 10:01
Bromoform	< .001	mg/l			WG758515	12/08/14 10:01
Bromomethane	< .005	mg/l			WG758515	12/08/14 10:01
Carbon tetrachloride	< .001	mg/l			WG758515	12/08/14 10:01
Chlorobenzene	< .001	mg/l			WG758515	12/08/14 10:01
Chlorodibromomethane	< .001	mg/l			WG758515	12/08/14 10:01
Chloroethane	< .005	mg/l			WG758515	12/08/14 10:01
Chloroform	< .005	mg/l			WG758515	12/08/14 10:01
Chloromethane	< .0025	mg/l			WG758515	12/08/14 10:01
cis-1,2-Dichloroethene	< .001	mg/l			WG758515	12/08/14 10:01
cis-1,3-Dichloropropene	< .001	mg/l			WG758515	12/08/14 10:01
Di-isopropyl ether	< .001	mg/l			WG758515	12/08/14 10:01
Dibromomethane	< .001	mg/l			WG758515	12/08/14 10:01
Dichlorodifluoromethane	< .005	mg/l			WG758515	12/08/14 10:01
Ethylbenzene	< .001	mg/l			WG758515	12/08/14 10:01
Hexachloro-1,3-butadiene	< .001	mg/l			WG758515	12/08/14 10:01
Isopropylbenzene	< .001	mg/l			WG758515	12/08/14 10:01
Methyl tert-butyl ether	< .001	mg/l			WG758515	12/08/14 10:01
Methylene Chloride	< .005	mg/l			WG758515	12/08/14 10:01
n-Butylbenzene	< .001	mg/l			WG758515	12/08/14 10:01
n-Propylbenzene	< .001	mg/l			WG758515	12/08/14 10:01
Naphthalene	< .005	mg/l			WG758515	12/08/14 10:01
p-Isopropyltoluene	< .001	mg/l			WG758515	12/08/14 10:01
sec-Butylbenzene	< .001	mg/l			WG758515	12/08/14 10:01
Styrene	< .001	mg/l			WG758515	12/08/14 10:01
tert-Butylbenzene	< .001	mg/l			WG758515	12/08/14 10:01

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L737329

December 12, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Tetrachloroethene	< .001	mg/l			WG758515	12/08/14 10:01
Toluene	< .005	mg/l			WG758515	12/08/14 10:01
trans-1,2-Dichloroethene	< .001	mg/l			WG758515	12/08/14 10:01
trans-1,3-Dichloropropene	< .001	mg/l			WG758515	12/08/14 10:01
Trichloroethene	< .001	mg/l			WG758515	12/08/14 10:01
Trichlorofluoromethane	< .005	mg/l			WG758515	12/08/14 10:01
Vinyl chloride	< .001	mg/l			WG758515	12/08/14 10:01
Xylenes, Total	< .003	mg/l			WG758515	12/08/14 10:01
4-Bromofluorobenzene		% Rec.	107.0	71-126	WG758515	12/08/14 10:01
Dibromofluoromethane		% Rec.	105.0	78.3-121	WG758515	12/08/14 10:01
Toluene-d8		% Rec.	106.0	88.5-111	WG758515	12/08/14 10:01
1,2,4-Trichlorobenzene	< .01	mg/l			WG758449	12/08/14 15:05
2,4,6-Trichlorophenol	< .01	mg/l			WG758449	12/08/14 15:05
2,4-Dichlorophenol	< .01	mg/l			WG758449	12/08/14 15:05
2,4-Dimethylphenol	< .01	mg/l			WG758449	12/08/14 15:05
2,4-Dinitrophenol	< .01	mg/l			WG758449	12/08/14 15:05
2,4-Dinitrotoluene	< .01	mg/l			WG758449	12/08/14 15:05
2,6-Dinitrotoluene	< .01	mg/l			WG758449	12/08/14 15:05
2-Chloronaphthalene	< .001	mg/l			WG758449	12/08/14 15:05
2-Chlorophenol	< .01	mg/l			WG758449	12/08/14 15:05
2-Nitrophenol	< .01	mg/l			WG758449	12/08/14 15:05
3,3-Dichlorobenzidine	< .01	mg/l			WG758449	12/08/14 15:05
4,6-Dinitro-2-methylphenol	< .01	mg/l			WG758449	12/08/14 15:05
4-Bromophenyl-phenylether	< .01	mg/l			WG758449	12/08/14 15:05
4-Chloro-3-methylphenol	< .01	mg/l			WG758449	12/08/14 15:05
4-Chlorophenyl-phenylether	< .01	mg/l			WG758449	12/08/14 15:05
4-Nitrophenol	< .01	mg/l			WG758449	12/08/14 15:05
Acenaphthene	< .001	mg/l			WG758449	12/08/14 15:05
Acenaphthylene	< .001	mg/l			WG758449	12/08/14 15:05
Anthracene	< .001	mg/l			WG758449	12/08/14 15:05
Benzidine	< .01	mg/l			WG758449	12/08/14 15:05
Benzo(a)anthracene	< .001	mg/l			WG758449	12/08/14 15:05
Benzo(a)pyrene	< .001	mg/l			WG758449	12/08/14 15:05
Benzo(b)fluoranthene	< .001	mg/l			WG758449	12/08/14 15:05
Benzo(g,h,i)perylene	< .001	mg/l			WG758449	12/08/14 15:05
Benzo(k)fluoranthene	< .001	mg/l			WG758449	12/08/14 15:05
Benzylbutyl phthalate	< .003	mg/l			WG758449	12/08/14 15:05
Bis(2-chlorethoxy)methane	< .01	mg/l			WG758449	12/08/14 15:05
Bis(2-chloroethyl)ether	< .01	mg/l			WG758449	12/08/14 15:05
Bis(2-chloroisopropyl)ether	< .01	mg/l			WG758449	12/08/14 15:05
Bis(2-ethylhexyl)phthalate	< .003	mg/l			WG758449	12/08/14 15:05
Chrysene	< .001	mg/l			WG758449	12/08/14 15:05
Di-n-butyl phthalate	< .003	mg/l			WG758449	12/08/14 15:05
Di-n-octyl phthalate	< .003	mg/l			WG758449	12/08/14 15:05
Dibenz(a,h)anthracene	< .001	mg/l			WG758449	12/08/14 15:05
Diethyl phthalate	< .003	mg/l			WG758449	12/08/14 15:05
Dimethyl phthalate	< .003	mg/l			WG758449	12/08/14 15:05
Fluoranthene	< .001	mg/l			WG758449	12/08/14 15:05
Fluorene	< .001	mg/l			WG758449	12/08/14 15:05
Hexachloro-1,3-butadiene	< .01	mg/l			WG758449	12/08/14 15:05
Hexachlorobenzene	< .001	mg/l			WG758449	12/08/14 15:05
Hexachlorocyclopentadiene	< .01	mg/l			WG758449	12/08/14 15:05
Hexachloroethane	< .01	mg/l			WG758449	12/08/14 15:05
Indeno(1,2,3-cd)pyrene	< .001	mg/l			WG758449	12/08/14 15:05
Isophorone	< .01	mg/l			WG758449	12/08/14 15:05
n-Nitrosodi-n-propylamine	< .01	mg/l			WG758449	12/08/14 15:05
n-Nitrosodimethylamine	< .01	mg/l			WG758449	12/08/14 15:05

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Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
n-Nitrosodiphenylamine	< .01	mg/l			WG758449	12/08/14 15:05
Naphthalene	< .001	mg/l			WG758449	12/08/14 15:05
Nitrobenzene	< .01	mg/l			WG758449	12/08/14 15:05
Pentachlorophenol	< .001	mg/l			WG758449	12/08/14 15:05
Phenanthrene	< .001	mg/l			WG758449	12/08/14 15:05
Phenol	< .01	mg/l			WG758449	12/08/14 15:05
Pyrene	< .001	mg/l			WG758449	12/08/14 15:05
2,4,6-Tribromophenol		% Rec.	42.90	11.2-130	WG758449	12/08/14 15:05
2-Fluorobiphenyl		% Rec.	61.00	29.5-131	WG758449	12/08/14 15:05
2-Fluorophenol		% Rec.	36.60	10-77.9	WG758449	12/08/14 15:05
Nitrobenzene-d5		% Rec.	43.70	21.8-123	WG758449	12/08/14 15:05
Phenol-d5		% Rec.	26.90	5-70.1	WG758449	12/08/14 15:05
p-Terphenyl-d14		% Rec.	55.00	29.3-137	WG758449	12/08/14 15:05
1,2,4-Trichlorobenzene	< .01	mg/l			WG758669	12/08/14 17:40
2,4,6-Trichlorophenol	< .01	mg/l			WG758669	12/08/14 17:40
2,4-Dichlorophenol	< .01	mg/l			WG758669	12/08/14 17:40
2,4-Dimethylphenol	< .01	mg/l			WG758669	12/08/14 17:40
2,4-Dinitrophenol	< .01	mg/l			WG758669	12/08/14 17:40
2,4-Dinitrotoluene	< .01	mg/l			WG758669	12/08/14 17:40
2,6-Dinitrotoluene	< .01	mg/l			WG758669	12/08/14 17:40
2-Chloronaphthalene	< .001	mg/l			WG758669	12/08/14 17:40
2-Chlorophenol	< .01	mg/l			WG758669	12/08/14 17:40
2-Nitrophenol	< .01	mg/l			WG758669	12/08/14 17:40
3,3-Dichlorobenzidine	< .01	mg/l			WG758669	12/08/14 17:40
4,6-Dinitro-2-methylphenol	< .01	mg/l			WG758669	12/08/14 17:40
4-Bromophenyl-phenylether	< .01	mg/l			WG758669	12/08/14 17:40
4-Chloro-3-methylphenol	< .01	mg/l			WG758669	12/08/14 17:40
4-Chlorophenyl-phenylether	< .01	mg/l			WG758669	12/08/14 17:40
4-Nitrophenol	< .01	mg/l			WG758669	12/08/14 17:40
Acenaphthene	< .001	mg/l			WG758669	12/08/14 17:40
Acenaphthylene	< .001	mg/l			WG758669	12/08/14 17:40
Anthracene	< .001	mg/l			WG758669	12/08/14 17:40
Benzidine	< .01	mg/l			WG758669	12/08/14 17:40
Benzo(a)anthracene	< .001	mg/l			WG758669	12/08/14 17:40
Benzo(a)pyrene	< .001	mg/l			WG758669	12/08/14 17:40
Benzo(b)fluoranthene	< .001	mg/l			WG758669	12/08/14 17:40
Benzo(g,h,i)perylene	< .001	mg/l			WG758669	12/08/14 17:40
Benzo(k)fluoranthene	< .001	mg/l			WG758669	12/08/14 17:40
Benzylbutyl phthalate	< .003	mg/l			WG758669	12/08/14 17:40
Bis(2-chlorethoxy)methane	< .01	mg/l			WG758669	12/08/14 17:40
Bis(2-chloroethyl)ether	< .01	mg/l			WG758669	12/08/14 17:40
Bis(2-chloroisopropyl)ether	< .01	mg/l			WG758669	12/08/14 17:40
Bis(2-ethylhexyl)phthalate	< .003	mg/l			WG758669	12/08/14 17:40
Chrysene	< .001	mg/l			WG758669	12/08/14 17:40
Di-n-butyl phthalate	< .003	mg/l			WG758669	12/08/14 17:40
Di-n-octyl phthalate	< .003	mg/l			WG758669	12/08/14 17:40
Dibenz(a,h)anthracene	< .001	mg/l			WG758669	12/08/14 17:40
Diethyl phthalate	< .003	mg/l			WG758669	12/08/14 17:40
Dimethyl phthalate	< .003	mg/l			WG758669	12/08/14 17:40
Fluoranthene	< .001	mg/l			WG758669	12/08/14 17:40
Fluorene	< .001	mg/l			WG758669	12/08/14 17:40
Hexachloro-1,3-butadiene	< .01	mg/l			WG758669	12/08/14 17:40
Hexachlorobenzene	< .001	mg/l			WG758669	12/08/14 17:40
Hexachlorocyclopentadiene	< .01	mg/l			WG758669	12/08/14 17:40
Hexachloroethane	< .01	mg/l			WG758669	12/08/14 17:40
Indeno(1,2,3-cd)pyrene	< .001	mg/l			WG758669	12/08/14 17:40
Isophorone	< .01	mg/l			WG758669	12/08/14 17:40

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Golden, CO 80401

Quality Assurance Report
Level II

L737329

December 12, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
n-Nitrosodi-n-propylamine	< .01	mg/l			WG758669	12/08/14 17:40
n-Nitrosodimethylamine	< .01	mg/l			WG758669	12/08/14 17:40
n-Nitrosodiphenylamine	< .01	mg/l			WG758669	12/08/14 17:40
Naphthalene	< .001	mg/l			WG758669	12/08/14 17:40
Nitrobenzene	< .01	mg/l			WG758669	12/08/14 17:40
Pentachlorophenol	< .001	mg/l			WG758669	12/08/14 17:40
Phenanthrene	< .001	mg/l			WG758669	12/08/14 17:40
Phenol	< .01	mg/l			WG758669	12/08/14 17:40
Pyrene	< .001	mg/l			WG758669	12/08/14 17:40
2,4,6-Tribromophenol		% Rec.	53.50	11.2-130	WG758669	12/08/14 17:40
2-Fluorobiphenyl		% Rec.	66.30	29.5-131	WG758669	12/08/14 17:40
2-Fluorophenol		% Rec.	38.00	10-77.9	WG758669	12/08/14 17:40
Nitrobenzene-d5		% Rec.	59.90	21.8-123	WG758669	12/08/14 17:40
Phenol-d5		% Rec.	27.50	5-70.1	WG758669	12/08/14 17:40
p-Terphenyl-d14		% Rec.	61.40	29.3-137	WG758669	12/08/14 17:40
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG758838	12/09/14 11:45
1,1,1-Trichloroethane	< .001	mg/l			WG758838	12/09/14 11:45
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG758838	12/09/14 11:45
1,1,2-Trichloroethane	< .001	mg/l			WG758838	12/09/14 11:45
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG758838	12/09/14 11:45
1,1-Dichloroethane	< .001	mg/l			WG758838	12/09/14 11:45
1,1-Dichloroethene	< .001	mg/l			WG758838	12/09/14 11:45
1,1-Dichloropropene	< .001	mg/l			WG758838	12/09/14 11:45
1,2,3-Trichlorobenzene	< .001	mg/l			WG758838	12/09/14 11:45
1,2,3-Trichloropropane	< .001	mg/l			WG758838	12/09/14 11:45
1,2,3-Trimethylbenzene	< .001	mg/l			WG758838	12/09/14 11:45
1,2,4-Trichlorobenzene	< .001	mg/l			WG758838	12/09/14 11:45
1,2,4-Trimethylbenzene	< .001	mg/l			WG758838	12/09/14 11:45
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG758838	12/09/14 11:45
1,2-Dibromoethane	< .001	mg/l			WG758838	12/09/14 11:45
1,2-Dichlorobenzene	< .001	mg/l			WG758838	12/09/14 11:45
1,2-Dichloroethane	< .001	mg/l			WG758838	12/09/14 11:45
1,2-Dichloropropane	< .001	mg/l			WG758838	12/09/14 11:45
1,3,5-Trimethylbenzene	< .001	mg/l			WG758838	12/09/14 11:45
1,3-Dichlorobenzene	< .001	mg/l			WG758838	12/09/14 11:45
1,3-Dichloropropane	< .001	mg/l			WG758838	12/09/14 11:45
1,4-Dichlorobenzene	< .001	mg/l			WG758838	12/09/14 11:45
2,2-Dichloropropane	< .001	mg/l			WG758838	12/09/14 11:45
2-Butanone (MEK)	< .01	mg/l			WG758838	12/09/14 11:45
2-Chloroethyl vinyl ether	< .05	mg/l			WG758838	12/09/14 11:45
2-Chlorotoluene	< .001	mg/l			WG758838	12/09/14 11:45
4-Chlorotoluene	< .001	mg/l			WG758838	12/09/14 11:45
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG758838	12/09/14 11:45
Acetone	< .05	mg/l			WG758838	12/09/14 11:45
Acrolein	< .025	mg/l			WG758838	12/09/14 11:45
Acrylonitrile	< .01	mg/l			WG758838	12/09/14 11:45
Benzene	< .001	mg/l			WG758838	12/09/14 11:45
Bromobenzene	< .001	mg/l			WG758838	12/09/14 11:45
Bromodichloromethane	< .001	mg/l			WG758838	12/09/14 11:45
Bromoform	< .001	mg/l			WG758838	12/09/14 11:45
Bromomethane	< .005	mg/l			WG758838	12/09/14 11:45
Carbon tetrachloride	< .001	mg/l			WG758838	12/09/14 11:45
Chlorobenzene	< .001	mg/l			WG758838	12/09/14 11:45
Chlorodibromomethane	< .001	mg/l			WG758838	12/09/14 11:45
Chloroethane	< .005	mg/l			WG758838	12/09/14 11:45
Chloroform	< .005	mg/l			WG758838	12/09/14 11:45
Chloromethane	< .0025	mg/l			WG758838	12/09/14 11:45

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Quality Assurance Report
Level II

L737329

December 12, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
cis-1,2-Dichloroethene	< .001	mg/l			WG758838	12/09/14 11:45
cis-1,3-Dichloropropene	< .001	mg/l			WG758838	12/09/14 11:45
Di-isopropyl ether	< .001	mg/l			WG758838	12/09/14 11:45
Dibromomethane	< .001	mg/l			WG758838	12/09/14 11:45
Dichlorodifluoromethane	< .005	mg/l			WG758838	12/09/14 11:45
Ethylbenzene	< .001	mg/l			WG758838	12/09/14 11:45
Hexachloro-1,3-butadiene	< .001	mg/l			WG758838	12/09/14 11:45
Isopropylbenzene	< .001	mg/l			WG758838	12/09/14 11:45
Methyl tert-butyl ether	< .001	mg/l			WG758838	12/09/14 11:45
Methylene Chloride	< .005	mg/l			WG758838	12/09/14 11:45
n-Butylbenzene	< .001	mg/l			WG758838	12/09/14 11:45
n-Propylbenzene	< .001	mg/l			WG758838	12/09/14 11:45
Naphthalene	< .005	mg/l			WG758838	12/09/14 11:45
p-Isopropyltoluene	< .001	mg/l			WG758838	12/09/14 11:45
sec-Butylbenzene	< .001	mg/l			WG758838	12/09/14 11:45
Styrene	< .001	mg/l			WG758838	12/09/14 11:45
tert-Butylbenzene	< .001	mg/l			WG758838	12/09/14 11:45
Tetrachloroethene	< .001	mg/l			WG758838	12/09/14 11:45
Toluene	< .005	mg/l			WG758838	12/09/14 11:45
trans-1,2-Dichloroethene	< .001	mg/l			WG758838	12/09/14 11:45
trans-1,3-Dichloropropene	< .001	mg/l			WG758838	12/09/14 11:45
Trichloroethene	< .001	mg/l			WG758838	12/09/14 11:45
Trichlorofluoromethane	< .005	mg/l			WG758838	12/09/14 11:45
Vinyl chloride	< .001	mg/l			WG758838	12/09/14 11:45
Xylenes, Total	< .003	mg/l			WG758838	12/09/14 11:45
4-Bromofluorobenzene		% Rec.	109.0	71-126	WG758838	12/09/14 11:45
Dibromofluoromethane		% Rec.	107.0	78.3-121	WG758838	12/09/14 11:45
Toluene-d8		% Rec.	102.0	88.5-111	WG758838	12/09/14 11:45
Naphthalene	< .005	mg/l			WG759244	12/10/14 23:10
4-Bromofluorobenzene		% Rec.	99.80	71-126	WG759244	12/10/14 23:10
Dibromofluoromethane		% Rec.	93.50	78.3-121	WG759244	12/10/14 23:10
Toluene-d8		% Rec.	101.0	88.5-111	WG759244	12/10/14 23:10
1,2,4-Trichlorobenzene	< .01	mg/l			WG758672	12/09/14 12:04
2,4,6-Trichlorophenol	< .01	mg/l			WG758672	12/09/14 12:04
2,4-Dichlorophenol	< .01	mg/l			WG758672	12/09/14 12:04
2,4-Dimethylphenol	< .01	mg/l			WG758672	12/09/14 12:04
2,4-Dinitrophenol	< .01	mg/l			WG758672	12/09/14 12:04
2,4-Dinitrotoluene	< .01	mg/l			WG758672	12/09/14 12:04
2,6-Dinitrotoluene	< .01	mg/l			WG758672	12/09/14 12:04
2-Chloronaphthalene	< .001	mg/l			WG758672	12/09/14 12:04
2-Chlorophenol	< .01	mg/l			WG758672	12/09/14 12:04
2-Nitrophenol	< .01	mg/l			WG758672	12/09/14 12:04
3,3-Dichlorobenzidine	< .01	mg/l			WG758672	12/09/14 12:04
4,6-Dinitro-2-methylphenol	< .01	mg/l			WG758672	12/09/14 12:04
4-Bromophenyl-phenylether	< .01	mg/l			WG758672	12/09/14 12:04
4-Chloro-3-methylphenol	< .01	mg/l			WG758672	12/09/14 12:04
4-Chlorophenyl-phenylether	< .01	mg/l			WG758672	12/09/14 12:04
4-Nitrophenol	< .01	mg/l			WG758672	12/09/14 12:04
Acenaphthene	< .001	mg/l			WG758672	12/09/14 12:04
Acenaphthylene	< .001	mg/l			WG758672	12/09/14 12:04
Anthracene	< .001	mg/l			WG758672	12/09/14 12:04
Benzidine	< .01	mg/l			WG758672	12/09/14 12:04
Benzo(a)anthracene	< .001	mg/l			WG758672	12/09/14 12:04
Benzo(a)pyrene	< .001	mg/l			WG758672	12/09/14 12:04
Benzo(b)fluoranthene	< .001	mg/l			WG758672	12/09/14 12:04

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December 12, 2014

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Benzo(g,h,i)perylene	< .001	mg/l			WG758672	12/09/14 12:04
Benzo(k)fluoranthene	< .001	mg/l			WG758672	12/09/14 12:04
Benzylbutyl phthalate	< .003	mg/l			WG758672	12/09/14 12:04
Bis(2-chlorethoxy)methane	< .01	mg/l			WG758672	12/09/14 12:04
Bis(2-chloroethyl)ether	< .01	mg/l			WG758672	12/09/14 12:04
Bis(2-chloroisopropyl)ether	< .01	mg/l			WG758672	12/09/14 12:04
Bis(2-ethylhexyl)phthalate	< .003	mg/l			WG758672	12/09/14 12:04
Chrysene	< .001	mg/l			WG758672	12/09/14 12:04
Di-n-butyl phthalate	< .003	mg/l			WG758672	12/09/14 12:04
Di-n-octyl phthalate	< .003	mg/l			WG758672	12/09/14 12:04
Dibenz(a,h)anthracene	< .001	mg/l			WG758672	12/09/14 12:04
Diethyl phthalate	< .003	mg/l			WG758672	12/09/14 12:04
Dimethyl phthalate	< .003	mg/l			WG758672	12/09/14 12:04
Fluoranthene	< .001	mg/l			WG758672	12/09/14 12:04
Fluorene	< .001	mg/l			WG758672	12/09/14 12:04
Hexachloro-1,3-butadiene	< .01	mg/l			WG758672	12/09/14 12:04
Hexachlorobenzene	< .001	mg/l			WG758672	12/09/14 12:04
Hexachlorocyclopentadiene	< .01	mg/l			WG758672	12/09/14 12:04
Hexachloroethane	< .01	mg/l			WG758672	12/09/14 12:04
Indeno(1,2,3-cd)pyrene	< .001	mg/l			WG758672	12/09/14 12:04
Isophorone	< .01	mg/l			WG758672	12/09/14 12:04
n-Nitrosodi-n-propylamine	< .01	mg/l			WG758672	12/09/14 12:04
n-Nitrosodimethylamine	< .01	mg/l			WG758672	12/09/14 12:04
n-Nitrosodiphenylamine	< .01	mg/l			WG758672	12/09/14 12:04
Naphthalene	< .001	mg/l			WG758672	12/09/14 12:04
Nitrobenzene	< .01	mg/l			WG758672	12/09/14 12:04
Pentachlorophenol	< .001	mg/l			WG758672	12/09/14 12:04
Phenanthrene	< .001	mg/l			WG758672	12/09/14 12:04
Phenol	< .01	mg/l			WG758672	12/09/14 12:04
Pyrene	< .001	mg/l			WG758672	12/09/14 12:04
2,4,6-Tribromophenol		% Rec.	66.70	11.2-130	WG758672	12/09/14 12:04
2-Fluorobiphenyl		% Rec.	72.20	29.5-131	WG758672	12/09/14 12:04
2-Fluorophenol		% Rec.	48.50	10-77.9	WG758672	12/09/14 12:04
Nitrobenzene-d5		% Rec.	64.40	21.8-123	WG758672	12/09/14 12:04
Phenol-d5		% Rec.	34.90	5-70.1	WG758672	12/09/14 12:04
p-Terphenyl-d14		% Rec.	71.20	29.3-137	WG758672	12/09/14 12:04
Naphthalene	< .005	mg/l			WG759264	12/11/14 09:41
4-Bromofluorobenzene		% Rec.	103.0	71-126	WG759264	12/11/14 09:41
Dibromofluoromethane		% Rec.	105.0	78.3-121	WG759264	12/11/14 09:41
Toluene-d8		% Rec.	108.0	88.5-111	WG759264	12/11/14 09:41

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0201	80.4	74.2-124	WG758515
1,1,1-Trichloroethane	mg/l	.025	0.0231	92.2	73.2-123	WG758515
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0204	81.7	70.7-122	WG758515
1,1,2-Trichloroethane	mg/l	.025	0.0199	79.6	77.7-118	WG758515
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0238	95.0	67.2-143	WG758515
1,1-Dichloroethane	mg/l	.025	0.0220	88.0	70.7-126	WG758515
1,1-Dichloroethene	mg/l	.025	0.0238	95.0	67.8-129	WG758515
1,1-Dichloropropene	mg/l	.025	0.0237	94.7	73.1-125	WG758515
1,2,3-Trichlorobenzene	mg/l	.025	0.0207	82.6	64.9-135	WG758515
1,2,3-Trichloropropane	mg/l	.025	0.0196	78.5	71.8-121	WG758515
1,2,3-Trimethylbenzene	mg/l	.025	0.0204	81.8	72.3-116	WG758515
1,2,4-Trichlorobenzene	mg/l	.025	0.0210	84.0	69.7-136	WG758515
1,2,4-Trimethylbenzene	mg/l	.025	0.0201	80.3	75-123	WG758515

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0213	85.3	65.4-128	WG758515
1,2-Dibromoethane	mg/l	.025	0.0206	82.5	76.6-121	WG758515
1,2-Dichlorobenzene	mg/l	.025	0.0201	80.6	78.4-117	WG758515
1,2-Dichloroethane	mg/l	.025	0.0211	84.2	68.8-124	WG758515
1,2-Dichloropropane	mg/l	.025	0.0209	83.7	76.5-119	WG758515
1,3,5-Trimethylbenzene	mg/l	.025	0.0212	84.6	75.6-124	WG758515
1,3-Dichlorobenzene	mg/l	.025	0.0204	81.6	70.8-128	WG758515
1,3-Dichloropropane	mg/l	.025	0.0193	77.1*	77.4-117	WG758515
1,4-Dichlorobenzene	mg/l	.025	0.0203	81.0	78.8-115	WG758515
2,2-Dichloropropane	mg/l	.025	0.0221	88.5	62.4-133	WG758515
2-Butanone (MEK)	mg/l	.125	0.108	86.7	55-149	WG758515
2-Chloroethyl vinyl ether	mg/l	.125	0.111	88.8	43.8-150	WG758515
2-Chlorotoluene	mg/l	.025	0.0205	82.0	74.7-122	WG758515
4-Chlorotoluene	mg/l	.025	0.0207	82.7	77.5-120	WG758515
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.112	89.9	70.5-133	WG758515
Acetone	mg/l	.125	0.114	91.5	35.6-163	WG758515
Acrolein	mg/l	.125	0.168	134.	10-190	WG758515
Acrylonitrile	mg/l	.125	0.113	90.2	55.2-130	WG758515
Benzene	mg/l	.025	0.0212	85.0	74.8-121	WG758515
Bromobenzene	mg/l	.025	0.0197	78.9	77.5-116	WG758515
Bromodichloromethane	mg/l	.025	0.0210	84.1	75.1-116	WG758515
Bromoform	mg/l	.025	0.0202	80.8	67.5-130	WG758515
Bromomethane	mg/l	.025	0.0219	87.6	49.9-162	WG758515
Carbon tetrachloride	mg/l	.025	0.0235	94.0	70.2-123	WG758515
Chlorobenzene	mg/l	.025	0.0201	80.6	78.1-119	WG758515
Chlorodibromomethane	mg/l	.025	0.0199	79.4	74-121	WG758515
Chloroethane	mg/l	.025	0.0242	96.7	61.7-135	WG758515
Chloroform	mg/l	.025	0.0213	85.3	76-121	WG758515
Chloromethane	mg/l	.025	0.0223	89.2	61.5-129	WG758515
cis-1,2-Dichloroethene	mg/l	.025	0.0212	84.9	76-119	WG758515
cis-1,3-Dichloropropene	mg/l	.025	0.0218	87.0	78.2-120	WG758515
Di-isopropyl ether	mg/l	.025	0.0218	87.2	65.6-132	WG758515
Dibromomethane	mg/l	.025	0.0209	83.5	79.5-118	WG758515
Dichlorodifluoromethane	mg/l	.025	0.0225	90.1	54.8-135	WG758515
Ethylbenzene	mg/l	.025	0.0207	82.7	78.8-122	WG758515
Hexachloro-1,3-butadiene	mg/l	.025	0.0225	89.9	64.7-129	WG758515
Isopropylbenzene	mg/l	.025	0.0217	86.7	78.6-132	WG758515
Methyl tert-butyl ether	mg/l	.025	0.0208	83.1	71.2-126	WG758515
Methylene Chloride	mg/l	.025	0.0199	79.8	70.3-120	WG758515
n-Butylbenzene	mg/l	.025	0.0228	91.3	76.2-126	WG758515
n-Propylbenzene	mg/l	.025	0.0215	85.9	78.2-122	WG758515
Naphthalene	mg/l	.025	0.0208	83.2	68.4-128	WG758515
p-Isopropyltoluene	mg/l	.025	0.0220	88.1	74-131	WG758515
sec-Butylbenzene	mg/l	.025	0.0224	89.8	74.4-127	WG758515
Styrene	mg/l	.025	0.0207	82.9	80.4-126	WG758515
tert-Butylbenzene	mg/l	.025	0.0222	88.7	75.3-126	WG758515
Tetrachloroethene	mg/l	.025	0.0212	84.7	72.6-126	WG758515
Toluene	mg/l	.025	0.0209	83.7	79.7-116	WG758515
trans-1,2-Dichloroethene	mg/l	.025	0.0223	89.2	72.6-121	WG758515
trans-1,3-Dichloropropene	mg/l	.025	0.0211	84.6	74.3-123	WG758515
Trichloroethene	mg/l	.025	0.0218	87.4	77.7-118	WG758515
Trichlorofluoromethane	mg/l	.025	0.0255	102.	63.5-135	WG758515
Vinyl chloride	mg/l	.025	0.0244	97.6	65.9-128	WG758515
Xylenes, Total	mg/l	.075	0.0603	80.4	78.7-121	WG758515
4-Bromofluorobenzene				102.0	71-126	WG758515
Dibromofluoromethane				106.0	78.3-121	WG758515
Toluene-d8				108.0	88.5-111	WG758515

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Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,2,4-Trichlorobenzene	mg/l	.025	0.0150	60.1	22.9-96.1	WG758449
2,4,6-Trichlorophenol	mg/l	.025	0.0189	75.6	29.8-107	WG758449
2,4-Dichlorophenol	mg/l	.025	0.0181	72.5	31.4-103	WG758449
2,4-Dimethylphenol	mg/l	.025	0.0167	66.8	31.9-107	WG758449
2,4-Dinitrophenol	mg/l	.025	0.0164	65.4	24.2-128	WG758449
2,4-Dinitrotoluene	mg/l	.025	0.0155	62.0	31.2-105	WG758449
2,6-Dinitrotoluene	mg/l	.025	0.0154	61.7	30.6-106	WG758449
2-Chloronaphthalene	mg/l	.025	0.0175	70.0	33.6-105	WG758449
2-Chlorophenol	mg/l	.025	0.0138	55.0	26.2-91.5	WG758449
2-Nitrophenol	mg/l	.025	0.0155	62.2	25.9-106	WG758449
3,3-Dichlorobenzidine	mg/l	.025	0.0189	75.7	27.2-142	WG758449
4,6-Dinitro-2-methylphenol	mg/l	.025	0.0223	89.1	18.4-148	WG758449
4-Bromophenyl-phenylether	mg/l	.025	0.0184	73.7	40.7-116	WG758449
4-Chloro-3-methylphenol	mg/l	.025	0.0169	67.7	35.7-100	WG758449
4-Chlorophenyl-phenylether	mg/l	.025	0.0170	67.9	39-113	WG758449
4-Nitrophenol	mg/l	.025	0.00957	38.3	10-52.7	WG758449
Acenaphthene	mg/l	.025	0.0164	65.5	38.7-109	WG758449
Acenaphthylene	mg/l	.025	0.0174	69.5	36-106	WG758449
Anthracene	mg/l	.025	0.0161	64.5	43.6-113	WG758449
Benzidine	mg/l	.025	0.0179	71.5	10-165.2	WG758449
Benzo(a)anthracene	mg/l	.025	0.0179	71.8	51.2-112	WG758449
Benzo(a)pyrene	mg/l	.025	0.0166	66.4	45.6-106	WG758449
Benzo(b)fluoranthene	mg/l	.025	0.0177	70.9	47.6-111	WG758449
Benzo(g,h,i)perylene	mg/l	.025	0.0200	79.9	45.2-117	WG758449
Benzo(k)fluoranthene	mg/l	.025	0.0160	63.9	49.4-114	WG758449
Benzylbutyl phthalate	mg/l	.025	0.0162	64.7	31.8-123	WG758449
Bis(2-chlorethoxy)methane	mg/l	.025	0.0152	60.8	37.2-111	WG758449
Bis(2-chloroethyl)ether	mg/l	.025	0.0119	47.5	22.6-108	WG758449
Bis(2-chloroisopropyl)ether	mg/l	.025	0.0148	59.3	32.9-100	WG758449
Bis(2-ethylhexyl)phthalate	mg/l	.025	0.0174	69.7	36.9-134	WG758449
Chrysene	mg/l	.025	0.0179	71.4	54.6-120	WG758449
Di-n-butyl phthalate	mg/l	.025	0.0153	61.1	41.8-120	WG758449
Di-n-octyl phthalate	mg/l	.025	0.0173	69.3	39.7-112	WG758449
Dibenz(a,h)anthracene	mg/l	.025	0.0175	70.2	42.8-118	WG758449
Diethyl phthalate	mg/l	.025	0.0184	73.4	36.5-129	WG758449
Dimethyl phthalate	mg/l	.025	0.0179	71.4	35.3-128	WG758449
Fluoranthene	mg/l	.025	0.0160	63.9	45.9-115	WG758449
Fluorene	mg/l	.025	0.0169	67.5	41-112	WG758449
Hexachloro-1,3-butadiene	mg/l	.025	0.0139	55.5	16.1-104	WG758449
Hexachlorobenzene	mg/l	.025	0.0184	73.6	38.5-116	WG758449
Hexachlorocyclopentadiene	mg/l	.025	0.0117	46.8	10-121	WG758449
Hexachloroethane	mg/l	.025	0.0130	52.2	16.5-89.8	WG758449
Indeno(1,2,3-cd)pyrene	mg/l	.025	0.0192	76.8	45-116	WG758449
Isophorone	mg/l	.025	0.0163	65.3	35.4-112	WG758449
n-Nitrosodi-n-propylamine	mg/l	.025	0.0141	56.3	33.2-106	WG758449
n-Nitrosodimethylamine	mg/l	.025	0.00765	30.6	10-80.1	WG758449
n-Nitrosodiphenylamine	mg/l	.025	0.0184	73.5	44.4-113	WG758449
Naphthalene	mg/l	.025	0.0145	57.8	32.2-101	WG758449
Nitrobenzene	mg/l	.025	0.0139	55.5	31.4-106	WG758449
Pentachlorophenol	mg/l	.025	0.0197	78.7	10-97.4	WG758449
Phenanthrene	mg/l	.025	0.0173	69.4	46.4-113	WG758449
Phenol	mg/l	.025	0.00744	29.8	10-57.9	WG758449
Pyrene	mg/l	.025	0.0175	69.9	46.3-117	WG758449
2,4,6-Tribromophenol				62.70	11.2-130	WG758449
2-Fluorobiphenyl				64.10	29.5-131	WG758449
2-Fluorophenol				36.40	10-77.9	WG758449
Nitrobenzene-d5				50.90	21.8-123	WG758449
Phenol-d5				26.00	5-70.1	WG758449
p-Terphenyl-d14				56.40	29.3-137	WG758449

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Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,2,4-Trichlorobenzene	mg/l	.025	0.0127	50.6	22.9-96.1	WG758669
2,4,6-Trichlorophenol	mg/l	.025	0.0163	65.1	29.8-107	WG758669
2,4-Dichlorophenol	mg/l	.025	0.0149	59.7	31.4-103	WG758669
2,4-Dimethylphenol	mg/l	.025	0.0146	58.5	31.9-107	WG758669
2,4-Dinitrophenol	mg/l	.025	0.0138	55.3	24.2-128	WG758669
2,4-Dinitrotoluene	mg/l	.025	0.0156	62.6	31.2-105	WG758669
2,6-Dinitrotoluene	mg/l	.025	0.0153	61.0	30.6-106	WG758669
2-Chloronaphthalene	mg/l	.025	0.0152	60.7	33.6-105	WG758669
2-Chlorophenol	mg/l	.025	0.0123	49.3	26.2-91.5	WG758669
2-Nitrophenol	mg/l	.025	0.0138	55.1	25.9-106	WG758669
3,3-Dichlorobenzidine	mg/l	.025	0.0150	60.1	27.2-142	WG758669
4,6-Dinitro-2-methylphenol	mg/l	.025	0.0164	65.5	18.4-148	WG758669
4-Bromophenyl-phenylether	mg/l	.025	0.0155	62.0	40.7-116	WG758669
4-Chloro-3-methylphenol	mg/l	.025	0.0157	62.8	35.7-100	WG758669
4-Chlorophenyl-phenylether	mg/l	.025	0.0154	61.6	39-113	WG758669
4-Nitrophenol	mg/l	.025	0.00742	29.7	10-52.7	WG758669
Acenaphthene	mg/l	.025	0.0151	60.3	38.7-109	WG758669
Acenaphthylene	mg/l	.025	0.0159	63.6	36-106	WG758669
Anthracene	mg/l	.025	0.0161	64.6	43.6-113	WG758669
Benzidine	mg/l	.025	0.0150	60.0	10-165.2	WG758669
Benzo(a)anthracene	mg/l	.025	0.0162	64.6	51.2-112	WG758669
Benzo(a)pyrene	mg/l	.025	0.0160	63.9	45.6-106	WG758669
Benzo(b)fluoranthene	mg/l	.025	0.0154	61.8	47.6-111	WG758669
Benzo(g,h,i)perylene	mg/l	.025	0.0162	64.8	45.2-117	WG758669
Benzo(k)fluoranthene	mg/l	.025	0.0155	61.9	49.4-114	WG758669
Benzylbutyl phthalate	mg/l	.025	0.0158	63.4	31.8-123	WG758669
Bis(2-chlorethoxy)methane	mg/l	.025	0.0142	56.6	37.2-111	WG758669
Bis(2-chloroethyl)ether	mg/l	.025	0.0123	49.2	22.6-108	WG758669
Bis(2-chloroisopropyl)ether	mg/l	.025	0.0133	53.1	32.9-100	WG758669
Bis(2-ethylhexyl)phthalate	mg/l	.025	0.0157	62.9	36.9-134	WG758669
Chrysene	mg/l	.025	0.0166	66.4	54.6-120	WG758669
Di-n-butyl phthalate	mg/l	.025	0.0162	64.8	41.8-120	WG758669
Di-n-octyl phthalate	mg/l	.025	0.0170	67.9	39.7-112	WG758669
Dibenz(a,h)anthracene	mg/l	.025	0.0158	63.3	42.8-118	WG758669
Diethyl phthalate	mg/l	.025	0.0167	66.7	36.5-129	WG758669
Dimethyl phthalate	mg/l	.025	0.0158	63.2	35.3-128	WG758669
Fluoranthene	mg/l	.025	0.0164	65.7	45.9-115	WG758669
Fluorene	mg/l	.025	0.0159	63.7	41-112	WG758669
Hexachloro-1,3-butadiene	mg/l	.025	0.0126	50.3	16.1-104	WG758669
Hexachlorobenzene	mg/l	.025	0.0158	63.1	38.5-116	WG758669
Hexachlorocyclopentadiene	mg/l	.025	0.00983	39.3	10-121	WG758669
Hexachloroethane	mg/l	.025	0.0122	48.7	16.5-89.8	WG758669
Indeno(1,2,3-cd)pyrene	mg/l	.025	0.0161	64.4	45-116	WG758669
Isophorone	mg/l	.025	0.0162	64.8	35.4-112	WG758669
n-Nitrosodi-n-propylamine	mg/l	.025	0.0135	54.2	33.2-106	WG758669
n-Nitrosodimethylamine	mg/l	.025	0.00789	31.6	10-80.1	WG758669
n-Nitrosodiphenylamine	mg/l	.025	0.0159	63.7	44.4-113	WG758669
Naphthalene	mg/l	.025	0.0128	51.2	32.2-101	WG758669
Nitrobenzene	mg/l	.025	0.0134	53.4	31.4-106	WG758669
Pentachlorophenol	mg/l	.025	0.0156	62.3	10-97.4	WG758669
Phenanthrene	mg/l	.025	0.0161	64.4	46.4-113	WG758669
Phenol	mg/l	.025	0.00663	26.5	10-57.9	WG758669
Pyrene	mg/l	.025	0.0167	66.7	46.3-117	WG758669
2,4,6-Tribromophenol				61.00	11.2-130	WG758669
2-Fluorobiphenyl				56.50	29.5-131	WG758669
2-Fluorophenol				31.90	10-77.9	WG758669
Nitrobenzene-d5				49.10	21.8-123	WG758669
Phenol-d5				24.00	5-70.1	WG758669
p-Terphenyl-d14				54.40	29.3-137	WG758669

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Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0258	103.	74.2-124	WG758838
1,1,1-Trichloroethane	mg/l	.025	0.0298	119.	73.2-123	WG758838
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0279	112.	70.7-122	WG758838
1,1,2-Trichloroethane	mg/l	.025	0.0228	91.3	77.7-118	WG758838
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0283	113.	67.2-143	WG758838
1,1-Dichloroethane	mg/l	.025	0.0302	121.	70.7-126	WG758838
1,1-Dichloroethene	mg/l	.025	0.0274	110.	67.8-129	WG758838
1,1-Dichloropropene	mg/l	.025	0.0290	116.	73.1-125	WG758838
1,2,3-Trichlorobenzene	mg/l	.025	0.0288	115.	64.9-135	WG758838
1,2,3-Trichloropropane	mg/l	.025	0.0240	95.8	71.8-121	WG758838
1,2,3-Trimethylbenzene	mg/l	.025	0.0280	112.	72.3-116	WG758838
1,2,4-Trichlorobenzene	mg/l	.025	0.0284	113.	69.7-136	WG758838
1,2,4-Trimethylbenzene	mg/l	.025	0.0277	111.	75-123	WG758838
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0245	98.1	65.4-128	WG758838
1,2-Dibromoethane	mg/l	.025	0.0233	93.0	76.6-121	WG758838
1,2-Dichlorobenzene	mg/l	.025	0.0264	106.	78.4-117	WG758838
1,2-Dichloroethane	mg/l	.025	0.0246	98.4	68.8-124	WG758838
1,2-Dichloropropane	mg/l	.025	0.0279	112.	76.5-119	WG758838
1,3,5-Trimethylbenzene	mg/l	.025	0.0280	112.	75.6-124	WG758838
1,3-Dichlorobenzene	mg/l	.025	0.0252	101.	70.8-128	WG758838
1,3-Dichloropropane	mg/l	.025	0.0222	88.6	77.4-117	WG758838
1,4-Dichlorobenzene	mg/l	.025	0.0250	100.	78.8-115	WG758838
2,2-Dichloropropane	mg/l	.025	0.0300	120.	62.4-133	WG758838
2-Butanone (MEK)	mg/l	.125	0.136	109.	55-149	WG758838
2-Chloroethyl vinyl ether	mg/l	.125	0.119	95.4	43.8-150	WG758838
2-Chlorotoluene	mg/l	.025	0.0274	109.	74.7-122	WG758838
4-Chlorotoluene	mg/l	.025	0.0258	103.	77.5-120	WG758838
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.132	106.	70.5-133	WG758838
Acetone	mg/l	.125	0.155	124.	35.6-163	WG758838
Acrolein	mg/l	.125	0.186	149.	10-190	WG758838
Acrylonitrile	mg/l	.125	0.157	126.	55.2-130	WG758838
Benzene	mg/l	.025	0.0284	114.	74.8-121	WG758838
Bromobenzene	mg/l	.025	0.0255	102.	77.5-116	WG758838
Bromodichloromethane	mg/l	.025	0.0243	97.3	75.1-116	WG758838
Bromoform	mg/l	.025	0.0232	92.9	67.5-130	WG758838
Bromomethane	mg/l	.025	0.0278	111.	49.9-162	WG758838
Carbon tetrachloride	mg/l	.025	0.0302	121.	70.2-123	WG758838
Chlorobenzene	mg/l	.025	0.0246	98.6	78.1-119	WG758838
Chlorodibromomethane	mg/l	.025	0.0226	90.2	74-121	WG758838
Chloroethane	mg/l	.025	0.0291	116.	61.7-135	WG758838
Chloroform	mg/l	.025	0.0289	116.	76-121	WG758838
Chloromethane	mg/l	.025	0.0312	125.	61.5-129	WG758838
cis-1,2-Dichloroethene	mg/l	.025	0.0296	118.	76-119	WG758838
cis-1,3-Dichloropropene	mg/l	.025	0.0249	99.6	78.2-120	WG758838
Di-isopropyl ether	mg/l	.025	0.0296	118.	65.6-132	WG758838
Dibromomethane	mg/l	.025	0.0252	101.	79.5-118	WG758838
Dichlorodifluoromethane	mg/l	.025	0.0304	122.	54.8-135	WG758838
Ethylbenzene	mg/l	.025	0.0263	105.	78.8-122	WG758838
Hexachloro-1,3-butadiene	mg/l	.025	0.0292	117.	64.7-129	WG758838
Isopropylbenzene	mg/l	.025	0.0283	113.	78.6-132	WG758838
Methyl tert-butyl ether	mg/l	.025	0.0285	114.	71.2-126	WG758838
Methylene Chloride	mg/l	.025	0.0303	121.*	70.3-120	WG758838
n-Butylbenzene	mg/l	.025	0.0308	123.	76.2-126	WG758838
n-Propylbenzene	mg/l	.025	0.0281	113.	78.2-122	WG758838
Naphthalene	mg/l	.025	0.0268	107.	68.4-128	WG758838
p-Isopropyltoluene	mg/l	.025	0.0294	118.	74-131	WG758838
sec-Butylbenzene	mg/l	.025	0.0290	116.	74.4-127	WG758838
Styrene	mg/l	.025	0.0271	108.	80.4-126	WG758838
tert-Butylbenzene	mg/l	.025	0.0279	111.	75.3-126	WG758838

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Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Tetrachloroethene	mg/l	.025	0.0252	101.	72.6-126	WG758838
Toluene	mg/l	.025	0.0262	105.	79.7-116	WG758838
trans-1,2-Dichloroethene	mg/l	.025	0.0291	116.	72.6-121	WG758838
trans-1,3-Dichloropropene	mg/l	.025	0.0234	93.7	74.3-123	WG758838
Trichloroethene	mg/l	.025	0.0252	101.	77.7-118	WG758838
Trichlorofluoromethane	mg/l	.025	0.0304	122.	63.5-135	WG758838
Vinyl chloride	mg/l	.025	0.0302	121.	65.9-128	WG758838
Xylenes, Total	mg/l	.075	0.0780	104.	78.7-121	WG758838
4-Bromofluorobenzene				101.0	71-126	WG758838
Dibromofluoromethane				110.0	78.3-121	WG758838
Toluene-d8				105.0	88.5-111	WG758838
Naphthalene	mg/l	.025	0.0211	84.3	68.4-128	WG759244
4-Bromofluorobenzene				98.70	71-126	WG759244
Dibromofluoromethane				92.50	78.3-121	WG759244
Toluene-d8				103.0	88.5-111	WG759244
1,2,4-Trichlorobenzene	mg/l	.025	0.0128	51.3	22.9-96.1	WG758672
2,4,6-Trichlorophenol	mg/l	.025	0.0182	72.7	29.8-107	WG758672
2,4-Dichlorophenol	mg/l	.025	0.0168	67.3	31.4-103	WG758672
2,4-Dimethylphenol	mg/l	.025	0.0168	67.4	31.9-107	WG758672
2,4-Dinitrophenol	mg/l	.025	0.0134	53.5	24.2-128	WG758672
2,4-Dinitrotoluene	mg/l	.025	0.0187	74.8	31.2-105	WG758672
2,6-Dinitrotoluene	mg/l	.025	0.0176	70.5	30.6-106	WG758672
2-Chloronaphthalene	mg/l	.025	0.0165	66.1	33.6-105	WG758672
2-Chlorophenol	mg/l	.025	0.0149	59.5	26.2-91.5	WG758672
2-Nitrophenol	mg/l	.025	0.0158	63.3	25.9-106	WG758672
3,3-Dichlorobenzidine	mg/l	.025	0.0170	67.9	27.2-142	WG758672
4,6-Dinitro-2-methylphenol	mg/l	.025	0.0169	67.6	18.4-148	WG758672
4-Bromophenyl-phenylether	mg/l	.025	0.0175	70.1	40.7-116	WG758672
4-Chloro-3-methylphenol	mg/l	.025	0.0175	70.1	35.7-100	WG758672
4-Chlorophenyl-phenylether	mg/l	.025	0.0172	68.9	39-113	WG758672
4-Nitrophenol	mg/l	.025	0.00916	36.6	10-52.7	WG758672
Acenaphthene	mg/l	.025	0.0168	67.4	38.7-109	WG758672
Acenaphthylene	mg/l	.025	0.0177	70.9	36-106	WG758672
Anthracene	mg/l	.025	0.0186	74.4	43.6-113	WG758672
Benzidine	mg/l	.025	0.00676	27.0	10-165.2	WG758672
Benzo(a)anthracene	mg/l	.025	0.0187	74.8	51.2-112	WG758672
Benzo(a)pyrene	mg/l	.025	0.0186	74.3	45.6-106	WG758672
Benzo(b)fluoranthene	mg/l	.025	0.0184	73.5	47.6-111	WG758672
Benzo(g,h,i)perylene	mg/l	.025	0.0186	74.2	45.2-117	WG758672
Benzo(k)fluoranthene	mg/l	.025	0.0176	70.3	49.4-114	WG758672
Benzylbutyl phthalate	mg/l	.025	0.0175	70.2	31.8-123	WG758672
Bis(2-chlorethoxy)methane	mg/l	.025	0.0159	63.7	37.2-111	WG758672
Bis(2-chloroethyl)ether	mg/l	.025	0.0147	58.9	22.6-108	WG758672
Bis(2-chloroisopropyl)ether	mg/l	.025	0.0149	59.6	32.9-100	WG758672
Bis(2-ethylhexyl)phthalate	mg/l	.025	0.0180	72.1	36.9-134	WG758672
Chrysene	mg/l	.025	0.0189	75.6	54.6-120	WG758672
Di-n-butyl phthalate	mg/l	.025	0.0179	71.7	41.8-120	WG758672
Di-n-octyl phthalate	mg/l	.025	0.0181	72.6	39.7-112	WG758672
Dibenz(a,h)anthracene	mg/l	.025	0.0180	72.2	42.8-118	WG758672
Diethyl phthalate	mg/l	.025	0.0191	76.4	36.5-129	WG758672
Dimethyl phthalate	mg/l	.025	0.0184	73.5	35.3-128	WG758672
Fluoranthene	mg/l	.025	0.0186	74.5	45.9-115	WG758672
Fluorene	mg/l	.025	0.0180	72.1	41-112	WG758672
Hexachloro-1,3-butadiene	mg/l	.025	0.0118	47.3	16.1-104	WG758672
Hexachlorobenzene	mg/l	.025	0.0186	74.3	38.5-116	WG758672

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Hexachlorocyclopentadiene	mg/l	.025	0.00941	37.6	10-121	WG758672
Hexachloroethane	mg/l	.025	0.0116	46.2	16.5-89.8	WG758672
Indeno(1,2,3-cd)pyrene	mg/l	.025	0.0181	72.6	45-116	WG758672
Isophorone	mg/l	.025	0.0182	72.7	35.4-112	WG758672
n-Nitrosodi-n-propylamine	mg/l	.025	0.0157	62.8	33.2-106	WG758672
n-Nitrosodimethylamine	mg/l	.025	0.00964	38.6	10-80.1	WG758672
n-Nitrosodiphenylamine	mg/l	.025	0.0184	73.7	44.4-113	WG758672
Naphthalene	mg/l	.025	0.0140	56.2	32.2-101	WG758672
Nitrobenzene	mg/l	.025	0.0150	60.1	31.4-106	WG758672
Pentachlorophenol	mg/l	.025	0.0157	62.9	10-97.4	WG758672
Phenanthrene	mg/l	.025	0.0184	73.7	46.4-113	WG758672
Phenol	mg/l	.025	0.00881	35.2	10-57.9	WG758672
Pyrene	mg/l	.025	0.0189	75.4	46.3-117	WG758672
2,4,6-Tribromophenol				64.50	11.2-130	WG758672
2-Fluorobiphenyl				62.70	29.5-131	WG758672
2-Fluorophenol				40.40	10-77.9	WG758672
Nitrobenzene-d5				55.70	21.8-123	WG758672
Phenol-d5				29.80	5-70.1	WG758672
p-Terphenyl-d14				61.10	29.3-137	WG758672
Naphthalene	mg/l	.025	0.0256	102.	68.4-128	WG759264
4-Bromofluorobenzene				104.0	71-126	WG759264
Dibromofluoromethane				104.0	78.3-121	WG759264
Toluene-d8				108.0	88.5-111	WG759264

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0232	0.0201	93.0	74.2-124	14.3	20	WG758515
1,1,1-Trichloroethane	mg/l	0.0238	0.0231	95.0	73.2-123	2.96	20	WG758515
1,1,2,2-Tetrachloroethane	mg/l	0.0245	0.0204	98.0	70.7-122	18.3	20	WG758515
1,1,2-Trichloroethane	mg/l	0.0236	0.0199	94.0	77.7-118	17.1	20	WG758515
1,1,2-Trichlorotrifluoroethane	mg/l	0.0231	0.0238	92.0	67.2-143	2.63	20	WG758515
1,1-Dichloroethane	mg/l	0.0240	0.0220	96.0	70.7-126	8.76	20	WG758515
1,1-Dichloroethene	mg/l	0.0237	0.0238	95.0	67.8-129	0.140	20	WG758515
1,1-Dichloropropene	mg/l	0.0238	0.0237	95.0	73.1-125	0.420	20	WG758515
1,2,3-Trichlorobenzene	mg/l	0.0228	0.0207	91.0	64.9-135	9.76	20	WG758515
1,2,3-Trichloropropane	mg/l	0.0242	0.0196	97.0	71.8-121	20.7*	20	WG758515
1,2,3-Trimethylbenzene	mg/l	0.0220	0.0204	88.0	72.3-116	7.32	20	WG758515
1,2,4-Trichlorobenzene	mg/l	0.0236	0.0210	94.0	69.7-136	11.6	20	WG758515
1,2,4-Trimethylbenzene	mg/l	0.0225	0.0201	90.0	75-123	11.3	20	WG758515
1,2-Dibromo-3-Chloropropane	mg/l	0.0253	0.0213	101.	65.4-128	17.2	20	WG758515
1,2-Dibromoethane	mg/l	0.0239	0.0206	96.0	76.6-121	14.9	20	WG758515
1,2-Dichlorobenzene	mg/l	0.0227	0.0201	91.0	78.4-117	11.8	20	WG758515
1,2-Dichloroethane	mg/l	0.0239	0.0211	96.0	68.8-124	12.8	20	WG758515
1,2-Dichloropropane	mg/l	0.0234	0.0209	93.0	76.5-119	11.0	20	WG758515
1,3,5-Trimethylbenzene	mg/l	0.0230	0.0212	92.0	75.6-124	8.30	20	WG758515
1,3-Dichlorobenzene	mg/l	0.0234	0.0204	93.0	70.8-128	13.5	20	WG758515
1,3-Dichloropropane	mg/l	0.0225	0.0193	90.0	77.4-117	15.4	20	WG758515
1,4-Dichlorobenzene	mg/l	0.0221	0.0203	88.0	78.8-115	8.47	20	WG758515
2,2-Dichloropropane	mg/l	0.0242	0.0221	97.0	62.4-133	8.98	20	WG758515
2-Butanone (MEK)	mg/l	0.131	0.108	104.	55-149	18.6	20	WG758515
2-Chloroethyl vinyl ether	mg/l	0.131	0.111	105.	43.8-150	16.7	20	WG758515
2-Chlorotoluene	mg/l	0.0226	0.0205	90.0	74.7-122	9.71	20	WG758515
4-Chlorotoluene	mg/l	0.0231	0.0207	92.0	77.5-120	11.0	20	WG758515
4-Methyl-2-pentanone (MIBK)	mg/l	0.139	0.112	111.	70.5-133	21.4*	20	WG758515
Acetone	mg/l	0.135	0.114	108.	35.6-163	16.6	23.9	WG758515
Acrolein	mg/l	0.198	0.168	158.	10-190	16.4	28.1	WG758515

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Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Acrylonitrile	mg/l	0.136	0.113	109.	55.2-130	18.6	20	WG758515
Benzene	mg/l	0.0228	0.0212	91.0	74.8-121	7.19	20	WG758515
Bromobenzene	mg/l	0.0227	0.0197	91.0	77.5-116	14.0	20	WG758515
Bromodichloromethane	mg/l	0.0244	0.0210	97.0	75.1-116	14.7	20	WG758515
Bromoform	mg/l	0.0254	0.0202	102.	67.5-130	22.9*	20	WG758515
Bromomethane	mg/l	0.0243	0.0219	97.0	49.9-162	10.5	20	WG758515
Carbon tetrachloride	mg/l	0.0234	0.0235	94.0	70.2-123	0.510	20	WG758515
Chlorobenzene	mg/l	0.0229	0.0201	92.0	78.1-119	12.9	20	WG758515
Chlorodibromomethane	mg/l	0.0233	0.0199	93.0	74-121	15.9	20	WG758515
Chloroethane	mg/l	0.0257	0.0242	103.	61.7-135	6.00	20	WG758515
Chloroform	mg/l	0.0237	0.0213	95.0	76-121	10.4	20	WG758515
Chloromethane	mg/l	0.0226	0.0223	90.0	61.5-129	1.12	20	WG758515
cis-1,2-Dichloroethene	mg/l	0.0235	0.0212	94.0	76-119	10.3	20	WG758515
cis-1,3-Dichloropropene	mg/l	0.0251	0.0218	100.	78.2-120	14.5	20	WG758515
Di-isopropyl ether	mg/l	0.0248	0.0218	99.0	65.6-132	13.0	20	WG758515
Dibromomethane	mg/l	0.0242	0.0209	97.0	79.5-118	14.7	20	WG758515
Dichlorodifluoromethane	mg/l	0.0217	0.0225	87.0	54.8-135	3.50	20	WG758515
Ethylbenzene	mg/l	0.0226	0.0207	90.0	78.8-122	8.74	20	WG758515
Hexachloro-1,3-butadiene	mg/l	0.0235	0.0225	94.0	64.7-129	4.55	20	WG758515
Isopropylbenzene	mg/l	0.0230	0.0217	92.0	78.6-132	5.94	20	WG758515
Methyl tert-butyl ether	mg/l	0.0243	0.0208	97.0	71.2-126	15.7	20	WG758515
Methylene Chloride	mg/l	0.0218	0.0199	87.0	70.3-120	8.81	20	WG758515
n-Butylbenzene	mg/l	0.0230	0.0228	92.0	76.2-126	0.640	20	WG758515
n-Propylbenzene	mg/l	0.0228	0.0215	91.0	78.2-122	5.89	20	WG758515
Naphthalene	mg/l	0.0241	0.0208	96.0	68.4-128	14.8	20	WG758515
p-Isopropyltoluene	mg/l	0.0236	0.0220	94.0	74-131	7.08	20	WG758515
sec-Butylbenzene	mg/l	0.0233	0.0224	93.0	74.4-127	3.88	20	WG758515
Styrene	mg/l	0.0240	0.0207	96.0	80.4-126	14.4	20	WG758515
tert-Butylbenzene	mg/l	0.0233	0.0222	93.0	75.3-126	4.80	20	WG758515
Tetrachloroethene	mg/l	0.0216	0.0212	86.0	72.6-126	2.18	20	WG758515
Toluene	mg/l	0.0225	0.0209	90.0	79.7-116	7.47	20	WG758515
trans-1,2-Dichloroethene	mg/l	0.0236	0.0223	94.0	72.6-121	5.70	20	WG758515
trans-1,3-Dichloropropene	mg/l	0.0253	0.0211	101.	74.3-123	18.1	20	WG758515
Trichloroethene	mg/l	0.0230	0.0218	92.0	77.7-118	4.96	20	WG758515
Trichlorofluoromethane	mg/l	0.0257	0.0255	103.	63.5-135	0.660	20	WG758515
Vinyl chloride	mg/l	0.0240	0.0244	96.0	65.9-128	1.88	20	WG758515
Xylenes, Total	mg/l	0.0660	0.0603	88.0	78.7-121	9.06	20	WG758515
4-Bromofluorobenzene				105.0	71-126			WG758515
Dibromofluoromethane				108.0	78.3-121			WG758515
Toluene-d8				109.0	88.5-111			WG758515
1,2,4-Trichlorobenzene	mg/l	0.0166	0.0150	66.0	22.9-96.1	10.2	27.5	WG758449
2,4,6-Trichlorophenol	mg/l	0.0191	0.0189	76.0	29.8-107	1.29	24.1	WG758449
2,4-Dichlorophenol	mg/l	0.0182	0.0181	73.0	31.4-103	0.570	24.9	WG758449
2,4-Dimethylphenol	mg/l	0.0172	0.0167	69.0	31.9-107	3.16	25.7	WG758449
2,4-Dinitrophenol	mg/l	0.0157	0.0164	63.0	24.2-128	4.05	20.5	WG758449
2,4-Dinitrotoluene	mg/l	0.0175	0.0155	70.0	31.2-105	12.1	22	WG758449
2,6-Dinitrotoluene	mg/l	0.0173	0.0154	69.0	30.6-106	11.6	23.1	WG758449
2-Chloronaphthalene	mg/l	0.0200	0.0175	80.0	33.6-105	13.2	23	WG758449
2-Chlorophenol	mg/l	0.0138	0.0138	55.0	26.2-91.5	0.540	26.5	WG758449
2-Nitrophenol	mg/l	0.0157	0.0155	63.0	25.9-106	1.22	26.9	WG758449
3,3-Dichlorobenzidine	mg/l	0.0202	0.0189	81.0	27.2-142	6.63	22.3	WG758449
4,6-Dinitro-2-methylphenol	mg/l	0.0214	0.0223	86.0	18.4-148	3.97	24.4	WG758449
4-Bromophenyl-phenylether	mg/l	0.0198	0.0184	79.0	40.7-116	6.94	21	WG758449
4-Chloro-3-methylphenol	mg/l	0.0171	0.0169	68.0	35.7-100	0.900	22.9	WG758449
4-Chlorophenyl-phenylether	mg/l	0.0195	0.0170	78.0	39-113	13.8	20.9	WG758449
4-Nitrophenol	mg/l	0.00949	0.00957	38.0	10-52.7	0.760	40	WG758449
Acenaphthene	mg/l	0.0189	0.0164	76.0	38.7-109	14.4	21.5	WG758449

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December 12, 2014

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Acenaphthylene	mg/l	0.0196	0.0174	78.0	36-106	12.2	21	WG758449
Anthracene	mg/l	0.0176	0.0161	70.0	43.6-113	8.57	18.8	WG758449
Benzidine	mg/l	0.0164	0.0179	66.0	10-165.2	8.33	40	WG758449
Benzo(a)anthracene	mg/l	0.0198	0.0179	79.0	51.2-112	9.72	20	WG758449
Benzo(a)pyrene	mg/l	0.0184	0.0166	73.0	45.6-106	10.1	20	WG758449
Benzo(b)fluoranthene	mg/l	0.0180	0.0177	72.0	47.6-111	1.44	20	WG758449
Benzo(g,h,i)perylene	mg/l	0.0248	0.0200	99.0	45.2-117	21.6*	20	WG758449
Benzo(k)fluoranthene	mg/l	0.0185	0.0160	74.0	49.4-114	14.6	20	WG758449
Benzylbutyl phthalate	mg/l	0.0173	0.0162	69.0	31.8-123	6.85	20.7	WG758449
Bis(2-chlorethoxy)methane	mg/l	0.0177	0.0152	71.0	37.2-111	15.5	24.1	WG758449
Bis(2-chloroethyl)ether	mg/l	0.0136	0.0119	54.0	22.6-108	13.4	27.9	WG758449
Bis(2-chloroisopropyl)ether	mg/l	0.0167	0.0148	67.0	32.9-100	11.9	25.1	WG758449
Bis(2-ethylhexyl)phthalate	mg/l	0.0180	0.0174	72.0	36.9-134	3.46	23.6	WG758449
Chrysene	mg/l	0.0198	0.0179	79.0	54.6-120	10.2	20	WG758449
Di-n-butyl phthalate	mg/l	0.0162	0.0153	65.0	41.8-120	5.97	20.2	WG758449
Di-n-octyl phthalate	mg/l	0.0181	0.0173	72.0	39.7-112	4.34	21.1	WG758449
Dibenz(a,h)anthracene	mg/l	0.0210	0.0175	84.0	42.8-118	17.7	20	WG758449
Diethyl phthalate	mg/l	0.0207	0.0184	83.0	36.5-129	11.8	20	WG758449
Dimethyl phthalate	mg/l	0.0201	0.0179	80.0	35.3-128	11.8	20.8	WG758449
Fluoranthene	mg/l	0.0171	0.0160	68.0	45.9-115	7.09	20	WG758449
Fluorene	mg/l	0.0190	0.0169	76.0	41-112	12.1	20.2	WG758449
Hexachloro-1,3-butadiene	mg/l	0.0162	0.0139	65.0	16.1-104	15.4	31.2	WG758449
Hexachlorobenzene	mg/l	0.0207	0.0184	83.0	38.5-116	11.6	20.1	WG758449
Hexachlorocyclopentadiene	mg/l	0.0130	0.0117	52.0	10-121	10.4	27.9	WG758449
Hexachloroethane	mg/l	0.0140	0.0130	56.0	16.5-89.8	7.29	30.7	WG758449
Indeno(1,2,3-cd)pyrene	mg/l	0.0231	0.0192	92.0	45-116	18.4	20	WG758449
Isophorone	mg/l	0.0186	0.0163	74.0	35.4-112	13.1	21.5	WG758449
n-Nitrosodi-n-propylamine	mg/l	0.0160	0.0141	64.0	33.2-106	12.5	23.7	WG758449
n-Nitrosodimethylamine	mg/l	0.00863	0.00765	34.0	10-80.1	12.0	37.5	WG758449
n-Nitrosodiphenylamine	mg/l	0.0199	0.0184	80.0	44.4-113	8.17	20	WG758449
Naphthalene	mg/l	0.0164	0.0145	65.0	32.2-101	12.3	23.8	WG758449
Nitrobenzene	mg/l	0.0156	0.0139	62.0	31.4-106	11.7	25.7	WG758449
Pentachlorophenol	mg/l	0.0185	0.0197	74.0	10-97.4	6.00	35.1	WG758449
Phenanthrene	mg/l	0.0192	0.0173	77.0	46.4-113	9.97	20	WG758449
Phenol	mg/l	0.00770	0.00744	31.0	10-57.9	3.36	35	WG758449
Pyrene	mg/l	0.0199	0.0175	80.0	46.3-117	13.0	20	WG758449
2,4,6-Tribromophenol				61.20	11.2-130			WG758449
2-Fluorobiphenyl				72.80	29.5-131			WG758449
2-Fluorophenol				34.50	10-77.9			WG758449
Nitrobenzene-d5				57.70	21.8-123			WG758449
Phenol-d5				25.90	5-70.1			WG758449
p-Terphenyl-d14				62.10	29.3-137			WG758449
1,2,4-Trichlorobenzene	mg/l	0.0159	0.0127	64.0	22.9-96.1	22.9	27.5	WG758669
2,4,6-Trichlorophenol	mg/l	0.0196	0.0163	78.0	29.8-107	18.4	24.1	WG758669
2,4-Dichlorophenol	mg/l	0.0185	0.0149	74.0	31.4-103	21.2	24.9	WG758669
2,4-Dimethylphenol	mg/l	0.0183	0.0146	73.0	31.9-107	22.1	25.7	WG758669
2,4-Dinitrophenol	mg/l	0.0149	0.0138	60.0	24.2-128	7.63	20.5	WG758669
2,4-Dinitrotoluene	mg/l	0.0175	0.0156	70.0	31.2-105	11.4	22	WG758669
2,6-Dinitrotoluene	mg/l	0.0176	0.0153	70.0	30.6-106	14.4	23.1	WG758669
2-Chloronaphthalene	mg/l	0.0185	0.0152	74.0	33.6-105	19.7	23	WG758669
2-Chlorophenol	mg/l	0.0161	0.0123	64.0	26.2-91.5	26.3	26.5	WG758669
2-Nitrophenol	mg/l	0.0174	0.0138	69.0	25.9-106	23.1	26.9	WG758669
3,3-Dichlorobenzidine	mg/l	0.0173	0.0150	69.0	27.2-142	14.0	22.3	WG758669
4,6-Dinitro-2-methylphenol	mg/l	0.0175	0.0164	70.0	18.4-148	6.78	24.4	WG758669
4-Bromophenyl-phenylether	mg/l	0.0179	0.0155	71.0	40.7-116	14.2	21	WG758669
4-Chloro-3-methylphenol	mg/l	0.0183	0.0157	73.0	35.7-100	15.2	22.9	WG758669
4-Chlorophenyl-phenylether	mg/l	0.0180	0.0154	72.0	39-113	15.7	20.9	WG758669

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Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
4-Nitrophenol	mg/l	0.00830	0.00742	33.0	10-52.7	11.2	40	WG758669
Acenaphthene	mg/l	0.0177	0.0151	71.0	38.7-109	16.0	21.5	WG758669
Acenaphthylene	mg/l	0.0191	0.0159	76.0	36-106	18.5	21	WG758669
Anthracene	mg/l	0.0187	0.0161	75.0	43.6-113	14.9	18.8	WG758669
Benzidine	mg/l	0.0163	0.0150	65.0	10-165.2	8.26	40	WG758669
Benzo(a)anthracene	mg/l	0.0182	0.0162	73.0	51.2-112	12.1	20	WG758669
Benzo(a)pyrene	mg/l	0.0181	0.0160	72.0	45.6-106	12.4	20	WG758669
Benzo(b)fluoranthene	mg/l	0.0186	0.0154	74.0	47.6-111	18.8	20	WG758669
Benzo(g,h,i)perylene	mg/l	0.0181	0.0162	72.0	45.2-117	11.2	20	WG758669
Benzo(k)fluoranthene	mg/l	0.0169	0.0155	68.0	49.4-114	8.79	20	WG758669
Benzylbutyl phthalate	mg/l	0.0183	0.0158	73.0	31.8-123	14.3	20.7	WG758669
Bis(2-chlorethoxy)methane	mg/l	0.0169	0.0142	68.0	37.2-111	17.6	24.1	WG758669
Bis(2-chloroethyl)ether	mg/l	0.0159	0.0123	64.0	22.6-108	25.4	27.9	WG758669
Bis(2-chloroisopropyl)ether	mg/l	0.0161	0.0133	64.0	32.9-100	19.3	25.1	WG758669
Bis(2-ethylhexyl)phthalate	mg/l	0.0186	0.0157	74.0	36.9-134	16.7	23.6	WG758669
Chrysene	mg/l	0.0185	0.0166	74.0	54.6-120	10.6	20	WG758669
Di-n-butyl phthalate	mg/l	0.0185	0.0162	74.0	41.8-120	13.6	20.2	WG758669
Di-n-octyl phthalate	mg/l	0.0188	0.0170	75.0	39.7-112	10.4	21.1	WG758669
Dibenz(a,h)anthracene	mg/l	0.0179	0.0158	71.0	42.8-118	12.1	20	WG758669
Diethyl phthalate	mg/l	0.0191	0.0167	76.0	36.5-129	13.9	20	WG758669
Dimethyl phthalate	mg/l	0.0182	0.0158	73.0	35.3-128	14.3	20.8	WG758669
Fluoranthene	mg/l	0.0186	0.0164	74.0	45.9-115	12.3	20	WG758669
Fluorene	mg/l	0.0187	0.0159	75.0	41-112	16.3	20.2	WG758669
Hexachloro-1,3-butadiene	mg/l	0.0156	0.0126	62.0	16.1-104	21.7	31.2	WG758669
Hexachlorobenzene	mg/l	0.0183	0.0158	73.0	38.5-116	14.8	20.1	WG758669
Hexachlorocyclopentadiene	mg/l	0.0122	0.00983	49.0	10-121	21.8	27.9	WG758669
Hexachloroethane	mg/l	0.0159	0.0122	64.0	16.5-89.8	26.6	30.7	WG758669
Indeno(1,2,3-cd)pyrene	mg/l	0.0181	0.0161	72.0	45-116	11.9	20	WG758669
Isophorone	mg/l	0.0190	0.0162	76.0	35.4-112	16.1	21.5	WG758669
n-Nitrosodi-n-propylamine	mg/l	0.0162	0.0135	65.0	33.2-106	17.8	23.7	WG758669
n-Nitrosodimethylamine	mg/l	0.0105	0.00789	42.0	10-80.1	28.3	37.5	WG758669
n-Nitrosodiphenylamine	mg/l	0.0183	0.0159	73.0	44.4-113	13.8	20	WG758669
Naphthalene	mg/l	0.0160	0.0128	64.0	32.2-101	22.4	23.8	WG758669
Nitrobenzene	mg/l	0.0168	0.0134	67.0	31.4-106	22.8	25.7	WG758669
Pentachlorophenol	mg/l	0.0182	0.0156	73.0	10-97.4	15.6	35.1	WG758669
Phenanthrene	mg/l	0.0183	0.0161	73.0	46.4-113	12.9	20	WG758669
Phenol	mg/l	0.00884	0.00663	35.0	10-57.9	28.6	35	WG758669
Pyrene	mg/l	0.0187	0.0167	75.0	46.3-117	11.5	20	WG758669
2,4,6-Tribromophenol				68.60	11.2-130			WG758669
2-Fluorobiphenyl				66.70	29.5-131			WG758669
2-Fluorophenol				39.60	10-77.9			WG758669
Nitrobenzene-d5				60.70	21.8-123			WG758669
Phenol-d5				29.90	5-70.1			WG758669
p-Terphenyl-d14				61.30	29.3-137			WG758669
1,1,1,2-Tetrachloroethane	mg/l	0.0259	0.0258	104.	74.2-124	0.440	20	WG758838
1,1,1-Trichloroethane	mg/l	0.0294	0.0298	118.	73.2-123	1.23	20	WG758838
1,1,2,2-Tetrachloroethane	mg/l	0.0271	0.0279	108.	70.7-122	2.94	20	WG758838
1,1,2-Trichloroethane	mg/l	0.0223	0.0228	89.0	77.7-118	2.59	20	WG758838
1,1,2-Trichlorotrifluoroethane	mg/l	0.0279	0.0283	112.	67.2-143	1.36	20	WG758838
1,1-Dichloroethane	mg/l	0.0293	0.0302	117.	70.7-126	3.19	20	WG758838
1,1-Dichloroethene	mg/l	0.0270	0.0274	108.	67.8-129	1.43	20	WG758838
1,1-Dichloropropene	mg/l	0.0286	0.0290	114.	73.1-125	1.52	20	WG758838
1,2,3-Trichlorobenzene	mg/l	0.0294	0.0288	118.	64.9-135	2.24	20	WG758838
1,2,3-Trichloropropane	mg/l	0.0239	0.0240	95.0	71.8-121	0.410	20	WG758838
1,2,3-Trimethylbenzene	mg/l	0.0283	0.0280	113.	72.3-116	1.11	20	WG758838
1,2,4-Trichlorobenzene	mg/l	0.0299	0.0284	120.	69.7-136	5.29	20	WG758838
1,2,4-Trimethylbenzene	mg/l	0.0282	0.0277	113.	75-123	1.84	20	WG758838

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Quality Assurance Report
Level II

L737329

December 12, 2014

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,2-Dibromo-3-Chloropropane	mg/l	0.0252	0.0245	101.	65.4-128	2.77	20	WG758838
1,2-Dibromoethane	mg/l	0.0218	0.0233	87.0	76.6-121	6.65	20	WG758838
1,2-Dichlorobenzene	mg/l	0.0267	0.0264	107.	78.4-117	0.860	20	WG758838
1,2-Dichloroethane	mg/l	0.0232	0.0246	93.0	68.8-124	5.94	20	WG758838
1,2-Dichloropropane	mg/l	0.0274	0.0279	110.	76.5-119	1.79	20	WG758838
1,3,5-Trimethylbenzene	mg/l	0.0286	0.0280	114.	75.6-124	2.20	20	WG758838
1,3-Dichlorobenzene	mg/l	0.0256	0.0252	102.	70.8-128	1.45	20	WG758838
1,3-Dichloropropane	mg/l	0.0218	0.0222	87.0	77.4-117	1.45	20	WG758838
1,4-Dichlorobenzene	mg/l	0.0249	0.0250	100.	78.8-115	0.410	20	WG758838
2,2-Dichloropropane	mg/l	0.0292	0.0300	117.	62.4-133	2.78	20	WG758838
2-Butanone (MEK)	mg/l	0.121	0.136	97.0	55-149	12.1	20	WG758838
2-Chloroethyl vinyl ether	mg/l	0.107	0.119	86.0	43.8-150	10.8	20	WG758838
2-Chlorotoluene	mg/l	0.0274	0.0274	110.	74.7-122	0.160	20	WG758838
4-Chlorotoluene	mg/l	0.0260	0.0258	104.	77.5-120	0.810	20	WG758838
4-Methyl-2-pentanone (MIBK)	mg/l	0.128	0.132	103.	70.5-133	2.85	20	WG758838
Acetone	mg/l	0.144	0.155	115.	35.6-163	7.20	23.9	WG758838
Acrolein	mg/l	0.181	0.186	144.	10-190	3.11	28.1	WG758838
Acrylonitrile	mg/l	0.147	0.157	118.	55.2-130	6.47	20	WG758838
Benzene	mg/l	0.0274	0.0284	110.	74.8-121	3.61	20	WG758838
Bromobenzene	mg/l	0.0250	0.0255	100.	77.5-116	2.11	20	WG758838
Bromodichloromethane	mg/l	0.0240	0.0243	96.0	75.1-116	1.46	20	WG758838
Bromoform	mg/l	0.0223	0.0232	89.0	67.5-130	3.88	20	WG758838
Bromomethane	mg/l	0.0283	0.0278	113.	49.9-162	1.72	20	WG758838
Carbon tetrachloride	mg/l	0.0293	0.0302	117.	70.2-123	3.11	20	WG758838
Chlorobenzene	mg/l	0.0242	0.0246	97.0	78.1-119	1.65	20	WG758838
Chlorodibromomethane	mg/l	0.0225	0.0226	90.0	74-121	0.130	20	WG758838
Chloroethane	mg/l	0.0287	0.0291	115.	61.7-135	1.32	20	WG758838
Chloroform	mg/l	0.0277	0.0289	111.	76-121	4.09	20	WG758838
Chloromethane	mg/l	0.0313	0.0312	125.	61.5-129	0.290	20	WG758838
cis-1,2-Dichloroethene	mg/l	0.0288	0.0296	115.	76-119	2.72	20	WG758838
cis-1,3-Dichloropropene	mg/l	0.0238	0.0249	95.0	78.2-120	4.31	20	WG758838
Di-isopropyl ether	mg/l	0.0287	0.0296	115.	65.6-132	3.04	20	WG758838
Dibromomethane	mg/l	0.0251	0.0252	100.	79.5-118	0.620	20	WG758838
Dichlorodifluoromethane	mg/l	0.0316	0.0304	126.	54.8-135	3.93	20	WG758838
Ethylbenzene	mg/l	0.0262	0.0263	105.	78.8-122	0.330	20	WG758838
Hexachloro-1,3-butadiene	mg/l	0.0301	0.0292	120.	64.7-129	2.99	20	WG758838
Isopropylbenzene	mg/l	0.0287	0.0283	115.	78.6-132	1.61	20	WG758838
Methyl tert-butyl ether	mg/l	0.0270	0.0285	108.	71.2-126	5.52	20	WG758838
Methylene Chloride	mg/l	0.0296	0.0303	118.	70.3-120	2.16	20	WG758838
n-Butylbenzene	mg/l	0.0316	0.0308	126.	76.2-126	2.57	20	WG758838
n-Propylbenzene	mg/l	0.0285	0.0281	114.	78.2-122	1.44	20	WG758838
Naphthalene	mg/l	0.0275	0.0268	110.	68.4-128	2.33	20	WG758838
p-Isopropyltoluene	mg/l	0.0300	0.0294	120.	74-131	1.91	20	WG758838
sec-Butylbenzene	mg/l	0.0297	0.0290	119.	74.4-127	2.23	20	WG758838
Styrene	mg/l	0.0264	0.0271	106.	80.4-126	2.41	20	WG758838
tert-Butylbenzene	mg/l	0.0285	0.0279	114.	75.3-126	2.22	20	WG758838
Tetrachloroethene	mg/l	0.0255	0.0252	102.	72.6-126	1.10	20	WG758838
Toluene	mg/l	0.0261	0.0262	104.	79.7-116	0.480	20	WG758838
trans-1,2-Dichloroethene	mg/l	0.0292	0.0291	117.	72.6-121	0.250	20	WG758838
trans-1,3-Dichloropropene	mg/l	0.0213	0.0234	85.0	74.3-123	9.68	20	WG758838
Trichloroethene	mg/l	0.0249	0.0252	100.	77.7-118	0.990	20	WG758838
Trichlorofluoromethane	mg/l	0.0299	0.0304	119.	63.5-135	1.90	20	WG758838
Vinyl chloride	mg/l	0.0301	0.0302	120.	65.9-128	0.340	20	WG758838
Xylenes, Total	mg/l	0.0790	0.0780	105.	78.7-121	1.22	20	WG758838
4-Bromofluorobenzene				102.0	71-126			WG758838
Dibromofluoromethane				105.0	78.3-121			WG758838
Toluene-d8				105.0	88.5-111			WG758838

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Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Naphthalene	mg/l	0.0221	0.0211	88.0	68.4-128	4.70	20	WG759244
4-Bromofluorobenzene				97.10	71-126			WG759244
Dibromofluoromethane				92.30	78.3-121			WG759244
Toluene-d8				102.0	88.5-111			WG759244
1,2,4-Trichlorobenzene	mg/l	0.0147	0.0128	59.0	22.9-96.1	13.8	27.5	WG758672
2,4,6-Trichlorophenol	mg/l	0.0196	0.0182	78.0	29.8-107	7.72	24.1	WG758672
2,4-Dichlorophenol	mg/l	0.0189	0.0168	75.0	31.4-103	11.5	24.9	WG758672
2,4-Dimethylphenol	mg/l	0.0189	0.0168	76.0	31.9-107	11.4	25.7	WG758672
2,4-Dinitrophenol	mg/l	0.0151	0.0134	60.0	24.2-128	12.4	20.5	WG758672
2,4-Dinitrotoluene	mg/l	0.0197	0.0187	79.0	31.2-105	5.00	22	WG758672
2,6-Dinitrotoluene	mg/l	0.0187	0.0176	75.0	30.6-106	5.93	23.1	WG758672
2-Chloronaphthalene	mg/l	0.0184	0.0165	73.0	33.6-105	10.5	23	WG758672
2-Chlorophenol	mg/l	0.0166	0.0149	66.0	26.2-91.5	11.1	26.5	WG758672
2-Nitrophenol	mg/l	0.0181	0.0158	72.0	25.9-106	13.6	26.9	WG758672
3,3-Dichlorobenzidine	mg/l	0.0180	0.0170	72.0	27.2-142	5.87	22.3	WG758672
4,6-Dinitro-2-methylphenol	mg/l	0.0186	0.0169	74.0	18.4-148	9.52	24.4	WG758672
4-Bromophenyl-phenylether	mg/l	0.0183	0.0175	73.0	40.7-116	4.07	21	WG758672
4-Chloro-3-methylphenol	mg/l	0.0186	0.0175	74.0	35.7-100	5.79	22.9	WG758672
4-Chlorophenyl-phenylether	mg/l	0.0184	0.0172	74.0	39-113	6.67	20.9	WG758672
4-Nitrophenol	mg/l	0.00930	0.00916	37.0	10-52.7	1.52	40	WG758672
Acenaphthene	mg/l	0.0183	0.0168	73.0	38.7-109	8.08	21.5	WG758672
Acenaphthylene	mg/l	0.0193	0.0177	77.0	36-106	8.39	21	WG758672
Anthracene	mg/l	0.0192	0.0186	77.0	43.6-113	3.10	18.8	WG758672
Benzidine	mg/l	0.00933	0.00676	37.0	10-165.2	32.0	40	WG758672
Benzo(a)anthracene	mg/l	0.0194	0.0187	78.0	51.2-112	3.65	20	WG758672
Benzo(a)pyrene	mg/l	0.0191	0.0186	76.0	45.6-106	2.86	20	WG758672
Benzo(b)fluoranthene	mg/l	0.0187	0.0184	75.0	47.6-111	1.81	20	WG758672
Benzo(g,h,i)perylene	mg/l	0.0187	0.0186	75.0	45.2-117	0.880	20	WG758672
Benzo(k)fluoranthene	mg/l	0.0184	0.0176	74.0	49.4-114	4.63	20	WG758672
Benzylbutyl phthalate	mg/l	0.0185	0.0175	74.0	31.8-123	5.33	20.7	WG758672
Bis(2-chlorethoxy)methane	mg/l	0.0179	0.0159	71.0	37.2-111	11.5	24.1	WG758672
Bis(2-chloroethyl)ether	mg/l	0.0169	0.0147	68.0	22.6-108	13.8	27.9	WG758672
Bis(2-chloroisopropyl)ether	mg/l	0.0175	0.0149	70.0	32.9-100	16.4	25.1	WG758672
Bis(2-ethylhexyl)phthalate	mg/l	0.0186	0.0180	74.0	36.9-134	2.92	23.6	WG758672
Chrysene	mg/l	0.0194	0.0189	78.0	54.6-120	2.64	20	WG758672
Di-n-butyl phthalate	mg/l	0.0185	0.0179	74.0	41.8-120	3.14	20.2	WG758672
Di-n-octyl phthalate	mg/l	0.0188	0.0181	75.0	39.7-112	3.65	21.1	WG758672
Dibenz(a,h)anthracene	mg/l	0.0184	0.0180	73.0	42.8-118	1.77	20	WG758672
Diethyl phthalate	mg/l	0.0195	0.0191	78.0	36.5-129	2.10	20	WG758672
Dimethyl phthalate	mg/l	0.0191	0.0184	76.0	35.3-128	4.02	20.8	WG758672
Fluoranthene	mg/l	0.0192	0.0186	77.0	45.9-115	3.35	20	WG758672
Fluorene	mg/l	0.0189	0.0180	76.0	41-112	5.02	20.2	WG758672
Hexachloro-1,3-butadiene	mg/l	0.0133	0.0118	53.0	16.1-104	11.9	31.2	WG758672
Hexachlorobenzene	mg/l	0.0194	0.0186	77.0	38.5-116	4.26	20.1	WG758672
Hexachlorocyclopentadiene	mg/l	0.0105	0.00941	42.0	10-121	11.1	27.9	WG758672
Hexachloroethane	mg/l	0.0133	0.0116	53.0	16.5-89.8	14.0	30.7	WG758672
Indeno(1,2,3-cd)pyrene	mg/l	0.0185	0.0181	74.0	45-116	2.02	20	WG758672
Isophorone	mg/l	0.0199	0.0182	80.0	35.4-112	9.13	21.5	WG758672
n-Nitrosodi-n-propylamine	mg/l	0.0177	0.0157	71.0	33.2-106	11.9	23.7	WG758672
n-Nitrosodimethylamine	mg/l	0.0109	0.00964	43.0	10-80.1	11.8	37.5	WG758672
n-Nitrosodiphenylamine	mg/l	0.0189	0.0184	76.0	44.4-113	2.69	20	WG758672
Naphthalene	mg/l	0.0162	0.0140	65.0	32.2-101	14.0	23.8	WG758672
Nitrobenzene	mg/l	0.0177	0.0150	71.0	31.4-106	16.5	25.7	WG758672
Pentachlorophenol	mg/l	0.0182	0.0157	73.0	10-97.4	14.5	35.1	WG758672
Phenanthrene	mg/l	0.0190	0.0184	76.0	46.4-113	2.84	20	WG758672
Phenol	mg/l	0.00926	0.00881	37.0	10-57.9	5.01	35	WG758672
Pyrene	mg/l	0.0196	0.0189	78.0	46.3-117	4.05	20	WG758672

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Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
2,4,6-Tribromophenol				71.90	11.2-130			
2-Fluorobiphenyl				70.00	29.5-131			
2-Fluorophenol				46.00	10-77.9			
Nitrobenzene-d5				65.80	21.8-123			
Phenol-d5				33.10	5-70.1			
p-Terphenyl-d14				64.80	29.3-137			
Naphthalene	mg/l	0.0251	0.0256	100.	68.4-128	1.92	20	WG759264
4-Bromofluorobenzene				101.0	71-126			WG759264
Dibromofluoromethane				102.0	78.3-121			WG759264
Toluene-d8				108.0	88.5-111			WG759264

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0273	0.0	.025	110.	64-128	L737329-07	WG758515
1,1,1-Trichloroethane	mg/l	0.0322	0.0	.025	130.	58.7-134	L737329-07	WG758515
1,1,2,2-Tetrachloroethane	mg/l	0.0283	0.0	.025	110.	56-132	L737329-07	WG758515
1,1,2-Trichloroethane	mg/l	0.0281	0.0	.025	110.	66.3-125	L737329-07	WG758515
1,1,2-Trichlorotrifluoroethane	mg/l	0.0329	0.0	.025	130.	54.8-154	L737329-07	WG758515
1,1-Dichloroethane	mg/l	0.0301	0.0	.025	120.	58.5-132	L737329-07	WG758515
1,1-Dichloroethene	mg/l	0.0312	0.0	.025	120.	51.1-140	L737329-07	WG758515
1,1-Dichloropropene	mg/l	0.0316	0.0	.025	130.	57.3-136	L737329-07	WG758515
1,2,3-Trichlorobenzene	mg/l	0.0277	0.0	.025	110.	59.1-138	L737329-07	WG758515
1,2,3-Trichloropropane	mg/l	0.0280	0.0	.025	110.	61.4-128	L737329-07	WG758515
1,2,3-Trimethylbenzene	mg/l	0.0620	0.0372	.025	99.0	61.3-122	L737329-07	WG758515
1,2,4-Trichlorobenzene	mg/l	0.0296	0.0	.025	120.	63.6-143	L737329-07	WG758515
1,2,4-Trimethylbenzene	mg/l	0.0617	0.0386	.025	92.0	57.4-137	L737329-07	WG758515
1,2-Dibromo-3-Chloropropane	mg/l	0.0315	0.0	.025	130.	57.3-136	L737329-07	WG758515
1,2-Dibromoethane	mg/l	0.0279	0.0	.025	110.	67.1-125	L737329-07	WG758515
1,2-Dichlorobenzene	mg/l	0.0273	0.0	.025	110.	68.2-123	L737329-07	WG758515
1,2-Dichloroethane	mg/l	0.0286	0.0	.025	110.	60-126	L737329-07	WG758515
1,2-Dichloropropane	mg/l	0.0287	0.0	.025	120.	64.2-123	L737329-07	WG758515
1,3,5-Trimethylbenzene	mg/l	0.0368	0.00916	.025	110.	63.6-132	L737329-07	WG758515
1,3-Dichlorobenzene	mg/l	0.0269	0.0	.025	110.	63.1-131	L737329-07	WG758515
1,3-Dichloropropane	mg/l	0.0262	0.0	.025	100.	67.9-121	L737329-07	WG758515
1,4-Dichlorobenzene	mg/l	0.0271	0.0	.025	110.	68.6-123	L737329-07	WG758515
2,2-Dichloropropane	mg/l	0.0303	0.0	.025	120.	50.5-144	L737329-07	WG758515
2-Butanone (MEK)	mg/l	0.158	0.0	.125	130.	22.4-138	L737329-07	WG758515
2-Chloroethyl vinyl ether	mg/l	0.0611	0.0	.125	49.0	10-155	L737329-07	WG758515
2-Chlorotoluene	mg/l	0.0274	0.0	.025	110.	63.6-128	L737329-07	WG758515
4-Chlorotoluene	mg/l	0.0273	0.0	.025	110.	65.7-127	L737329-07	WG758515
4-Methyl-2-pentanone (MIBK)	mg/l	0.164	0.0	.125	130.	60.8-140	L737329-07	WG758515
Acetone	mg/l	0.153	0.00289	.125	120.	10-130	L737329-07	WG758515
Acrolein	mg/l	0.266	0.0	.125	210.*	10-200	L737329-07	WG758515
Acrylonitrile	mg/l	0.160	0.0	.125	130.	49.4-133	L737329-07	WG758515
Benzene	mg/l	0.118	0.100	.025	73.0	54.3-133	L737329-07	WG758515
Bromobenzene	mg/l	0.0271	0.0	.025	110.	63.9-124	L737329-07	WG758515
Bromodichloromethane	mg/l	0.0287	0.0	.025	120.	63.9-121	L737329-07	WG758515
Bromoform	mg/l	0.0285	0.0	.025	110.	59.5-134	L737329-07	WG758515
Bromomethane	mg/l	0.0257	0.0	.025	100.	41.7-155	L737329-07	WG758515
Carbon tetrachloride	mg/l	0.0318	0.0	.025	130.	55.7-134	L737329-07	WG758515
Chlorobenzene	mg/l	0.0267	0.0	.025	110.	67-125	L737329-07	WG758515
Chlorodibromomethane	mg/l	0.0272	0.0	.025	110.	64.3-125	L737329-07	WG758515
Chloroethane	mg/l	0.0294	0.0	.025	120.	51.5-136	L737329-07	WG758515
Chloroform	mg/l	0.0298	0.0	.025	120.	63-129	L737329-07	WG758515
Chloromethane	mg/l	0.0266	0.0	.025	110.	42.4-135	L737329-07	WG758515
cis-1,2-Dichloroethene	mg/l	0.0292	0.0	.025	120.	59.2-129	L737329-07	WG758515
cis-1,3-Dichloropropene	mg/l	0.0303	0.0	.025	120.	66.4-125	L737329-07	WG758515
Di-isopropyl ether	mg/l	0.0298	0.0	.025	120.	56.9-136	L737329-07	WG758515

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Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Dibromomethane	mg/l	0.0283	0.0	.025	110.	68.2-124	L737329-07	WG758515
Dichlorodifluoromethane	mg/l	0.0303	0.0	.025	120.	40.6-144	L737329-07	WG758515
Ethylbenzene	mg/l	0.117	0.105	.025	48.0*	61.4-133	L737329-07	WG758515
Hexachloro-1,3-butadiene	mg/l	0.0322	0.0	.025	130.	55.1-136	L737329-07	WG758515
Isopropylbenzene	mg/l	0.0504	0.0230	.025	110.	66.8-141	L737329-07	WG758515
Methyl tert-butyl ether	mg/l	0.0280	0.0	.025	110.	57.7-134	L737329-07	WG758515
Methylene Chloride	mg/l	0.0262	0.0	.025	100.	58.1-122	L737329-07	WG758515
n-Butylbenzene	mg/l	0.0326	0.00105	.025	130.	62.7-140	L737329-07	WG758515
n-Propylbenzene	mg/l	0.0330	0.00431	.025	120.	65.9-131	L737329-07	WG758515
Naphthalene	mg/l	0.361	0.357	.025	19.0*	58-135	L737329-07	WG758515
p-Isopropyltoluene	mg/l	0.0344	0.0	.025	140.	63.2-139	L737329-07	WG758515
sec-Butylbenzene	mg/l	0.0308	0.000578	.025	120.	62.2-136	L737329-07	WG758515
Styrene	mg/l	0.0276	0.0	.025	110.	66.8-133	L737329-07	WG758515
tert-Butylbenzene	mg/l	0.0303	0.0	.025	120.	63.3-134	L737329-07	WG758515
Tetrachloroethene	mg/l	0.0279	0.0	.025	110.	53-139	L737329-07	WG758515
Toluene	mg/l	0.0332	0.00581	.025	110.	61.4-130	L737329-07	WG758515
trans-1,2-Dichloroethene	mg/l	0.0297	0.0	.025	120.	56.5-129	L737329-07	WG758515
trans-1,3-Dichloropropene	mg/l	0.0302	0.0	.025	120.	64.1-128	L737329-07	WG758515
Trichloroethene	mg/l	0.0290	0.0	.025	120.	44.1-149	L737329-07	WG758515
Trichlorofluoromethane	mg/l	0.0333	0.0	.025	130.	49.6-145	L737329-07	WG758515
Vinyl chloride	mg/l	0.0307	0.0	.025	120.	47.8-137	L737329-07	WG758515
Xylenes, Total	mg/l	0.157	0.0862	.075	95.0	63.3-131	L737329-07	WG758515
4-Bromofluorobenzene					101.0	71-126		WG758515
Dibromofluoromethane					107.0	78.3-121		WG758515
Toluene-d8					109.0	88.5-111		WG758515
1,2,4-Trichlorobenzene	mg/l	0.0168	0.0	.025	67.0	21.4-101	L737082-08	WG758449
2,4,6-Trichlorophenol	mg/l	0.0191	0.0	.025	76.0	19.1-114	L737082-08	WG758449
2,4-Dichlorophenol	mg/l	0.0178	0.0	.025	71.0	34.7-107	L737082-08	WG758449
2,4-Dimethylphenol	mg/l	0.0100	0.0	.025	40.0	10-152	L737082-08	WG758449
2,4-Dinitrophenol	mg/l	0.0186	0.0	.025	74.0	10-136	L737082-08	WG758449
2,4-Dinitrotoluene	mg/l	0.0172	0.0	.025	69.0	16.2-135	L737082-08	WG758449
2,6-Dinitrotoluene	mg/l	0.0177	0.0	.025	71.0	25.2-124	L737082-08	WG758449
2-Chloronaphthalene	mg/l	0.0200	0.0	.025	80.0	29.7-114	L737082-08	WG758449
2-Chlorophenol	mg/l	0.0139	0.0	.025	56.0	13.9-105	L737082-08	WG758449
2-Nitrophenol	mg/l	0.0164	0.0	.025	66.0	26.7-114	L737082-08	WG758449
3,3-Dichlorobenzidine	mg/l	0.0191	0.0	.025	76.0	10-162	L737082-08	WG758449
4,6-Dinitro-2-methylphenol	mg/l	0.0228	0.0	.025	91.0	10-151	L737082-08	WG758449
4-Bromophenyl-phenylether	mg/l	0.0207	0.0	.025	83.0	34.3-135	L737082-08	WG758449
4-Chloro-3-methylphenol	mg/l	0.0170	0.0	.025	68.0	35.7-110	L737082-08	WG758449
4-Chlorophenyl-phenylether	mg/l	0.0192	0.0	.025	77.0	35.6-127	L737082-08	WG758449
4-Nitrophenol	mg/l	0.00968	0.0	.025	39.0	10-130	L737082-08	WG758449
Acenaphthene	mg/l	0.0192	0.000802	.025	74.0	30.7-124	L737082-08	WG758449
Acenaphthylene	mg/l	0.0196	0.0	.025	78.0	29-122	L737082-08	WG758449
Anthracene	mg/l	0.0179	0.0	.025	72.0	34.2-135	L737082-08	WG758449
Benzidine	mg/l	0.0144	0.0	.025	58.0	10-159	L737082-08	WG758449
Benzo(a)anthracene	mg/l	0.0199	0.0	.025	80.0	35.7-138	L737082-08	WG758449
Benzo(a)pyrene	mg/l	0.0172	0.0	.025	69.0	23.3-135	L737082-08	WG758449
Benzo(b)fluoranthene	mg/l	0.0186	0.0	.025	74.0	23-145	L737082-08	WG758449
Benzo(g,h,i)perylene	mg/l	0.0215	0.0	.025	86.0	10-148	L737082-08	WG758449
Benzo(k)fluoranthene	mg/l	0.0169	0.0	.025	67.0	29.5-143	L737082-08	WG758449
Benzylbutyl phthalate	mg/l	0.0185	0.00138	.025	69.0	13.3-159	L737082-08	WG758449
Bis(2-chlorethoxy)methane	mg/l	0.0165	0.0	.025	66.0	26.4-127	L737082-08	WG758449
Bis(2-chloroethyl)ether	mg/l	0.0139	0.0	.025	56.0	10-154	L737082-08	WG758449
Bis(2-chloroisopropyl)ether	mg/l	0.0166	0.0	.025	67.0	19.4-126	L737082-08	WG758449
Bis(2-ethylhexyl)phthalate	mg/l	0.0155	0.00179	.025	55.0	15.5-152	L737082-08	WG758449
Chrysene	mg/l	0.0194	0.0	.025	78.0	37-145	L737082-08	WG758449
Di-n-butyl phthalate	mg/l	0.0170	0.00166	.025	61.0	26-152	L737082-08	WG758449

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Di-n-octyl phthalate	mg/l	0.0155	0.00179	.025	55.0	12.3-145	L737082-08	WG758449
Dibenz(a,h)anthracene	mg/l	0.0181	0.0	.025	72.0	10-147	L737082-08	WG758449
Diethyl phthalate	mg/l	0.0206	0.0	.025	82.0	21.6-154	L737082-08	WG758449
Dimethyl phthalate	mg/l	0.0199	0.0	.025	80.0	10-157	L737082-08	WG758449
Fluoranthene	mg/l	0.0175	0.0	.025	70.0	37.1-139	L737082-08	WG758449
Fluorene	mg/l	0.0195	0.000503	.025	76.0	10-162	L737082-08	WG758449
Hexachloro-1,3-butadiene	mg/l	0.0159	0.0	.025	63.0	15.7-109	L737082-08	WG758449
Hexachlorobenzene	mg/l	0.0206	0.0	.025	82.0	31.9-135	L737082-08	WG758449
Hexachlorocyclopentadiene	mg/l	0.0127	0.0	.025	51.0	10-123	L737082-08	WG758449
Hexachloroethane	mg/l	0.0145	0.0	.025	58.0	10.4-105	L737082-08	WG758449
Indeno(1,2,3-cd)pyrene	mg/l	0.0202	0.0	.025	81.0	10-145	L737082-08	WG758449
Isophorone	mg/l	0.0179	0.0	.025	72.0	25.9-133	L737082-08	WG758449
n-Nitrosodi-n-propylamine	mg/l	0.0159	0.0	.025	64.0	23.9-125	L737082-08	WG758449
n-Nitrosodimethylamine	mg/l	0.00850	0.0	.025	34.0	10-94.5	L737082-08	WG758449
n-Nitrosodiphenylamine	mg/l	0.0202	0.0	.025	81.0	20.6-150	L737082-08	WG758449
Naphthalene	mg/l	0.0161	0.000198	.025	64.0	20.2-114	L737082-08	WG758449
Nitrobenzene	mg/l	0.0153	0.0	.025	61.0	23.1-121	L737082-08	WG758449
Pentachlorophenol	mg/l	0.0156	0.0	.025	62.0	10-108	L737082-08	WG758449
Phenanthrene	mg/l	0.0195	0.0	.025	78.0	33-139	L737082-08	WG758449
Phenol	mg/l	0.00738	0.0	.025	30.0	10-64.1	L737082-08	WG758449
Pyrene	mg/l	0.0203	0.0	.025	81.0	35.5-139	L737082-08	WG758449
2,4,6-Tribromophenol					65.10	11.2-130		WG758449
2-Fluorobiphenyl					72.40	29.5-131		WG758449
2-Fluorophenol					34.00	10-77.9		WG758449
Nitrobenzene-d5					56.60	21.8-123		WG758449
Phenol-d5					25.30	5-70.1		WG758449
p-Terphenyl-d14					61.80	29.3-137		WG758449
1,1,1,2-Tetrachloroethane	mg/l	0.0272	0.0	.025	110.	64-128	L737478-18	WG758838
1,1,1-Trichloroethane	mg/l	0.0314	0.0	.025	120.	58.7-134	L737478-18	WG758838
1,1,2,2-Tetrachloroethane	mg/l	0.0305	0.0	.025	120.	56-132	L737478-18	WG758838
1,1,2-Trichloroethane	mg/l	0.0250	0.0	.025	100.	66.3-125	L737478-18	WG758838
1,1,2-Trichlorotrifluoroethane	mg/l	0.0282	0.0	.025	110.	54.8-154	L737478-18	WG758838
1,1-Dichloroethane	mg/l	0.0312	0.0	.025	120.	58.5-132	L737478-18	WG758838
1,1-Dichloroethene	mg/l	0.0264	0.0	.025	110.	51.1-140	L737478-18	WG758838
1,1-Dichloropropene	mg/l	0.0303	0.0	.025	120.	57.3-136	L737478-18	WG758838
1,2,3-Trichlorobenzene	mg/l	0.0320	0.0	.025	130.	59.1-138	L737478-18	WG758838
1,2,3-Trichloropropane	mg/l	0.0259	0.0	.025	100.	61.4-128	L737478-18	WG758838
1,2,3-Trimethylbenzene	mg/l	0.0306	0.0	.025	120.	61.3-122	L737478-18	WG758838
1,2,4-Trichlorobenzene	mg/l	0.0319	0.0	.025	130.	63.6-143	L737478-18	WG758838
1,2,4-Trimethylbenzene	mg/l	0.0292	0.0	.025	120.	57.4-137	L737478-18	WG758838
1,2-Dibromo-3-Chloropropane	mg/l	0.0279	0.0	.025	110.	57.3-136	L737478-18	WG758838
1,2-Dibromoethane	mg/l	0.0246	0.0	.025	99.0	67.1-125	L737478-18	WG758838
1,2-Dichlorobenzene	mg/l	0.0291	0.0	.025	120.	68.2-123	L737478-18	WG758838
1,2-Dichloroethane	mg/l	0.0258	0.0	.025	100.	60-126	L737478-18	WG758838
1,2-Dichloropropane	mg/l	0.0295	0.0	.025	120.	64.2-123	L737478-18	WG758838
1,3,5-Trimethylbenzene	mg/l	0.0297	0.0	.025	120.	63.6-132	L737478-18	WG758838
1,3-Dichlorobenzene	mg/l	0.0271	0.0	.025	110.	63.1-131	L737478-18	WG758838
1,3-Dichloropropane	mg/l	0.0240	0.0	.025	96.0	67.9-121	L737478-18	WG758838
1,4-Dichlorobenzene	mg/l	0.0277	0.0	.025	110.	68.6-123	L737478-18	WG758838
2,2-Dichloropropane	mg/l	0.0305	0.0	.025	120.	50.5-144	L737478-18	WG758838
2-Butanone (MEK)	mg/l	0.163	0.0	.125	130.	22.4-138	L737478-18	WG758838
2-Chloroethyl vinyl ether	mg/l	0.0634	0.0	.125	51.0	10-155	L737478-18	WG758838
2-Chlorotoluene	mg/l	0.0287	0.0	.025	120.	63.6-128	L737478-18	WG758838
4-Chlorotoluene	mg/l	0.0274	0.0	.025	110.	65.7-127	L737478-18	WG758838
4-Methyl-2-pentanone (MIBK)	mg/l	0.146	0.0	.125	120.	60.8-140	L737478-18	WG758838
Acetone	mg/l	0.162	0.00509	.125	130.	10-130	L737478-18	WG758838
Acrolein	mg/l	0.200	0.0	.125	160.	10-200	L737478-18	WG758838

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Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Acrylonitrile	mg/l	0.167	0.0	.125	130.*	49.4-133	L737478-18	WG758838
Benzene	mg/l	0.0292	0.0	.025	120.	54.3-133	L737478-18	WG758838
Bromobenzene	mg/l	0.0270	0.0	.025	110.	63.9-124	L737478-18	WG758838
Bromodichloromethane	mg/l	0.0261	0.0	.025	100.	63.9-121	L737478-18	WG758838
Bromoform	mg/l	0.0247	0.0	.025	99.0	59.5-134	L737478-18	WG758838
Bromomethane	mg/l	0.0269	0.0	.025	110.	41.7-155	L737478-18	WG758838
Carbon tetrachloride	mg/l	0.0317	0.0	.025	130.	55.7-134	L737478-18	WG758838
Chlorobenzene	mg/l	0.0260	0.0	.025	100.	67-125	L737478-18	WG758838
Chlorodibromomethane	mg/l	0.0244	0.0	.025	98.0	64.3-125	L737478-18	WG758838
Chloroethane	mg/l	0.0289	0.0	.025	120.	51.5-136	L737478-18	WG758838
Chloroform	mg/l	0.0298	0.0	.025	120.	63-129	L737478-18	WG758838
Chloromethane	mg/l	0.0294	0.0	.025	120.	42.4-135	L737478-18	WG758838
cis-1,2-Dichloroethene	mg/l	0.0307	0.0	.025	120.	59.2-129	L737478-18	WG758838
cis-1,3-Dichloropropene	mg/l	0.0265	0.0	.025	110.	66.4-125	L737478-18	WG758838
Di-isopropyl ether	mg/l	0.0308	0.0	.025	120.	56.9-136	L737478-18	WG758838
Dibromomethane	mg/l	0.0272	0.0	.025	110.	68.2-124	L737478-18	WG758838
Dichlorodifluoromethane	mg/l	0.0296	0.0	.025	120.	40.6-144	L737478-18	WG758838
Ethylbenzene	mg/l	0.0273	0.0	.025	110.	61.4-133	L737478-18	WG758838
Hexachloro-1,3-butadiene	mg/l	0.0323	0.0	.025	130.	55.1-136	L737478-18	WG758838
Isopropylbenzene	mg/l	0.0302	0.0	.025	120.	66.8-141	L737478-18	WG758838
Methyl tert-butyl ether	mg/l	0.0291	0.0	.025	120.	57.7-134	L737478-18	WG758838
Methylene Chloride	mg/l	0.0310	0.00106	.025	120.	58.1-122	L737478-18	WG758838
n-Butylbenzene	mg/l	0.0341	0.0	.025	140.	62.7-140	L737478-18	WG758838
n-Propylbenzene	mg/l	0.0303	0.0	.025	120.	65.9-131	L737478-18	WG758838
Naphthalene	mg/l	0.0299	0.0	.025	120.	58-135	L737478-18	WG758838
p-Isopropyltoluene	mg/l	0.0321	0.0	.025	130.	63.2-139	L737478-18	WG758838
sec-Butylbenzene	mg/l	0.0314	0.0	.025	130.	62.2-136	L737478-18	WG758838
Styrene	mg/l	0.0288	0.0	.025	120.	66.8-133	L737478-18	WG758838
tert-Butylbenzene	mg/l	0.0308	0.0	.025	120.	63.3-134	L737478-18	WG758838
Tetrachloroethene	mg/l	0.0266	0.0	.025	110.	53-139	L737478-18	WG758838
Toluene	mg/l	0.0276	0.0	.025	110.	61.4-130	L737478-18	WG758838
trans-1,2-Dichloroethene	mg/l	0.0293	0.0	.025	120.	56.5-129	L737478-18	WG758838
trans-1,3-Dichloropropene	mg/l	0.0237	0.0	.025	95.0	64.1-128	L737478-18	WG758838
Trichloroethene	mg/l	0.0261	0.0	.025	100.	44.1-149	L737478-18	WG758838
Trichlorofluoromethane	mg/l	0.0301	0.0	.025	120.	49.6-145	L737478-18	WG758838
Vinyl chloride	mg/l	0.0295	0.0	.025	120.	47.8-137	L737478-18	WG758838
Xylenes, Total	mg/l	0.0831	0.0	.075	110.	63.3-131	L737478-18	WG758838
4-Bromofluorobenzene					99.20	71-126		WG758838
Dibromofluoromethane					108.0	78.3-121		WG758838
Toluene-d8					106.0	88.5-111		WG758838
Naphthalene	mg/l	0.0224	0.0	.025	89.0	58-135	L737699-01	WG759244
4-Bromofluorobenzene					98.70	71-126		WG759244
Dibromofluoromethane					92.90	78.3-121		WG759244
Toluene-d8					101.0	88.5-111		WG759244
1,2,4-Trichlorobenzene	mg/l	0.0177	0.0	.025	71.0	21.4-101	L737329-07	WG758672
2,4,6-Trichlorophenol	mg/l	0.0232	0.0	.025	93.0	19.1-114	L737329-07	WG758672
2,4-Dichlorophenol	mg/l	0.0215	0.0	.025	86.0	34.7-107	L737329-07	WG758672
2,4-Dimethylphenol	mg/l	0.0208	0.0	.025	83.0	10-152	L737329-07	WG758672
2,4-Dinitrophenol	mg/l	0.0162	0.0	.025	65.0	10-136	L737329-07	WG758672
2,4-Dinitrotoluene	mg/l	0.0246	0.0	.025	99.0	16.2-135	L737329-07	WG758672
2,6-Dinitrotoluene	mg/l	0.0223	0.0	.025	89.0	25.2-124	L737329-07	WG758672
2-Chloronaphthalene	mg/l	0.0217	0.0	.025	87.0	29.7-114	L737329-07	WG758672
2-Chlorophenol	mg/l	0.0177	0.0	.025	71.0	13.9-105	L737329-07	WG758672
2-Nitrophenol	mg/l	0.0201	0.0	.025	80.0	26.7-114	L737329-07	WG758672
3,3-Dichlorobenzidine	mg/l	0.0179	0.0	.025	72.0	10-162	L737329-07	WG758672

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Craig Lugowski
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Golden, CO 80401

Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
4,6-Dinitro-2-methylphenol	mg/l	0.0199	0.0	.025	79.0	10-151	L737329-07	WG758672
4-Bromophenyl-phenylether	mg/l	0.0221	0.0	.025	88.0	34.3-135	L737329-07	WG758672
4-Chloro-3-methylphenol	mg/l	0.0223	0.0	.025	89.0	35.7-110	L737329-07	WG758672
4-Chlorophenyl-phenylether	mg/l	0.0222	0.0	.025	89.0	35.6-127	L737329-07	WG758672
4-Nitrophenol	mg/l	0.0110	0.0	.025	44.0	10-130	L737329-07	WG758672
Acenaphthene	mg/l	0.140	0.109	.025	120.	30.7-124	L737329-07	WG758672
Acenaphthylene	mg/l	0.0716	0.0448	.025	110.	29-122	L737329-07	WG758672
Anthracene	mg/l	0.0307	0.00806	.025	91.0	34.2-135	L737329-07	WG758672
Benzidine	mg/l	0.00439	0.0	.025	18.0	10-159	L737329-07	WG758672
Benzo(a)anthracene	mg/l	0.0226	0.000346	.025	89.0	35.7-138	L737329-07	WG758672
Benzo(a)pyrene	mg/l	0.0217	0.0	.025	87.0	23.3-135	L737329-07	WG758672
Benzo(b)fluoranthene	mg/l	0.0218	0.0	.025	87.0	23-145	L737329-07	WG758672
Benzo(g,h,i)perylene	mg/l	0.0203	0.0	.025	81.0	10-148	L737329-07	WG758672
Benzo(k)fluoranthene	mg/l	0.0201	0.0	.025	80.0	29.5-143	L737329-07	WG758672
Benzylbutyl phthalate	mg/l	0.0240	0.0	.025	96.0	13.3-159	L737329-07	WG758672
Bis(2-chlorethoxy)methane	mg/l	0.0208	0.0	.025	83.0	26.4-127	L737329-07	WG758672
Bis(2-chloroethyl)ether	mg/l	0.0188	0.0	.025	75.0	10-154	L737329-07	WG758672
Bis(2-chloroisopropyl)ether	mg/l	0.0192	0.0	.025	77.0	19.4-126	L737329-07	WG758672
Bis(2-ethylhexyl)phthalate	mg/l	0.0169	0.000748	.025	65.0	15.5-152	L737329-07	WG758672
Chrysene	mg/l	0.0232	0.000154	.025	92.0	37-145	L737329-07	WG758672
Di-n-butyl phthalate	mg/l	0.0231	0.000217	.025	92.0	26-152	L737329-07	WG758672
Di-n-octyl phthalate	mg/l	0.0167	0.0	.025	67.0	12.3-145	L737329-07	WG758672
Dibenz(a,h)anthracene	mg/l	0.0192	0.0	.025	77.0	10-147	L737329-07	WG758672
Diethyl phthalate	mg/l	0.0236	0.0	.025	94.0	21.6-154	L737329-07	WG758672
Dimethyl phthalate	mg/l	0.0226	0.0	.025	91.0	10-157	L737329-07	WG758672
Fluoranthene	mg/l	0.0260	0.00286	.025	92.0	37.1-139	L737329-07	WG758672
Fluorene	mg/l	0.0490	0.0251	.025	96.0	10-162	L737329-07	WG758672
Hexachloro-1,3-butadiene	mg/l	0.0176	0.0	.025	70.0	15.7-109	L737329-07	WG758672
Hexachlorobenzene	mg/l	0.0227	0.0	.025	91.0	31.9-135	L737329-07	WG758672
Hexachlorocyclopentadiene	mg/l	0.0123	0.0	.025	49.0	10-123	L737329-07	WG758672
Hexachloroethane	mg/l	0.0266	0.0	.025	110.*	10.4-105	L737329-07	WG758672
Indeno(1,2,3-cd)pyrene	mg/l	0.0198	0.0	.025	79.0	10-145	L737329-07	WG758672
Isophorone	mg/l	0.0233	0.0	.025	93.0	25.9-133	L737329-07	WG758672
n-Nitrosodi-n-propylamine	mg/l	0.0202	0.0	.025	81.0	23.9-125	L737329-07	WG758672
n-Nitrosodimethylamine	mg/l	0.0121	0.0	.025	48.0	10-94.5	L737329-07	WG758672
n-Nitrosodiphenylamine	mg/l	0.0238	0.0	.025	95.0	20.6-150	L737329-07	WG758672
Naphthalene	mg/l	0.185	0.156	.025	120.*	20.2-114	L737329-07	WG758672
Nitrobenzene	mg/l	0.0210	0.0	.025	84.0	23.1-121	L737329-07	WG758672
Pentachlorophenol	mg/l	0.0218	0.0	.025	87.0	10-108	L737329-07	WG758672
Phenanthrene	mg/l	0.0581	0.0352	.025	92.0	33-139	L737329-07	WG758672
Phenol	mg/l	0.0141	0.00324	.025	43.0	10-64.1	L737329-07	WG758672
Pyrene	mg/l	0.0269	0.00372	.025	92.0	35.5-139	L737329-07	WG758672
2,4,6-Tribromophenol					88.20	11.2-130		WG758672
2-Fluorobiphenyl					76.80	29.5-131		WG758672
2-Fluorophenol					46.50	10-77.9		WG758672
Nitrobenzene-d5					69.10	21.8-123		WG758672
Phenol-d5					35.00	5-70.1		WG758672
p-Terphenyl-d14					77.70	29.3-137		WG758672
Naphthalene	mg/l	0.0266	0.0	.025	110.	58-135	L737592-02	WG759264
4-Bromofluorobenzene					104.0	71-126		WG759264
Dibromofluoromethane					105.0	78.3-121		WG759264
Toluene-d8					109.0	88.5-111		WG759264

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0267	0.0273	107.	64-128	2.39	20	L737329-07	WG758515

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Quality Assurance Report
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Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/l	0.0292	0.0322	117.	58.7-134	9.91	20	L737329-07	WG758515
1,1,2,2-Tetrachloroethane	mg/l	0.0286	0.0283	114.	56-132	0.780	22.2	L737329-07	WG758515
1,1,2-Trichloroethane	mg/l	0.0287	0.0281	115.	66.3-125	2.00	20	L737329-07	WG758515
1,1,2-Trichlorotrifluoroethane	mg/l	0.0294	0.0329	118.	54.8-154	11.3	22.5	L737329-07	WG758515
1,1-Dichloroethane	mg/l	0.0278	0.0301	111.	58.5-132	7.70	20	L737329-07	WG758515
1,1-Dichloroethene	mg/l	0.0273	0.0312	109.	51.1-140	13.1	20.2	L737329-07	WG758515
1,1-Dichloropropene	mg/l	0.0291	0.0316	116.	57.3-136	8.30	20	L737329-07	WG758515
1,2,3-Trichlorobenzene	mg/l	0.0271	0.0277	108.	59.1-138	2.09	23.7	L737329-07	WG758515
1,2,3-Trichloropropane	mg/l	0.0284	0.0280	114.	61.4-128	1.45	22.4	L737329-07	WG758515
1,2,3-Trimethylbenzene	mg/l	0.0620	0.0620	99.1	61.3-122	0.0300	20	L737329-07	WG758515
1,2,4-Trichlorobenzene	mg/l	0.0280	0.0296	112.	63.6-143	5.82	21.9	L737329-07	WG758515
1,2,4-Trimethylbenzene	mg/l	0.0627	0.0617	96.1	57.4-137	1.48	20	L737329-07	WG758515
1,2-Dibromo-3-Chloropropane	mg/l	0.0311	0.0315	124.	57.3-136	1.34	27	L737329-07	WG758515
1,2-Dibromoethane	mg/l	0.0278	0.0279	111.	67.1-125	0.380	20	L737329-07	WG758515
1,2-Dichlorobenzene	mg/l	0.0269	0.0273	107.	68.2-123	1.59	20	L737329-07	WG758515
1,2-Dichloroethane	mg/l	0.0271	0.0286	108.	60-126	5.28	20	L737329-07	WG758515
1,2-Dichloropropane	mg/l	0.0276	0.0287	110.	64.2-123	4.05	20	L737329-07	WG758515
1,3,5-Trimethylbenzene	mg/l	0.0365	0.0368	110.	63.6-132	0.780	20.5	L737329-07	WG758515
1,3-Dichlorobenzene	mg/l	0.0270	0.0269	108.	63.1-131	0.490	20	L737329-07	WG758515
1,3-Dichloropropane	mg/l	0.0270	0.0262	108.	67.9-121	2.96	20	L737329-07	WG758515
1,4-Dichlorobenzene	mg/l	0.0266	0.0271	106.	68.6-123	2.06	20	L737329-07	WG758515
2,2-Dichloropropane	mg/l	0.0289	0.0303	115.	50.5-144	4.82	21.9	L737329-07	WG758515
2-Butanone (MEK)	mg/l	0.149	0.158	119.	22.4-138	6.40	27	L737329-07	WG758515
2-Chloroethyl vinyl ether	mg/l	0.0110	0.0611	8.82*	10-155	139.*	20	L737329-07	WG758515
2-Chlorotoluene	mg/l	0.0270	0.0274	108.	63.6-128	1.57	20	L737329-07	WG758515
4-Chlorotoluene	mg/l	0.0273	0.0273	109.	65.7-127	0.160	20	L737329-07	WG758515
4-Methyl-2-pentanone (MIBK)	mg/l	0.164	0.164	131.	60.8-140	0.300	25.1	L737329-07	WG758515
Acetone	mg/l	0.147	0.153	115.	10-130	3.72	27.9	L737329-07	WG758515
Acrolein	mg/l	0.221	0.266	176.	10-200	18.7	27.7	L737329-07	WG758515
Acrylonitrile	mg/l	0.151	0.160	121.	49.4-133	5.67	25.3	L737329-07	WG758515
Benzene	mg/l	0.114	0.118	55.9	54.3-133	3.76	20	L737329-07	WG758515
Bromobenzene	mg/l	0.0266	0.0271	106.	63.9-124	1.97	20	L737329-07	WG758515
Bromodichloromethane	mg/l	0.0280	0.0287	112.	63.9-121	2.56	20	L737329-07	WG758515
Bromoform	mg/l	0.0292	0.0285	117.	59.5-134	2.59	20.5	L737329-07	WG758515
Bromomethane	mg/l	0.0219	0.0257	87.6	41.7-155	15.9	21.9	L737329-07	WG758515
Carbon tetrachloride	mg/l	0.0299	0.0318	120.	55.7-134	6.20	20	L737329-07	WG758515
Chlorobenzene	mg/l	0.0272	0.0267	109.	67-125	1.81	20	L737329-07	WG758515
Chlorodibromomethane	mg/l	0.0274	0.0272	110.	64.3-125	0.790	20.8	L737329-07	WG758515
Chloroethane	mg/l	0.0275	0.0294	110.	51.5-136	6.81	40	L737329-07	WG758515
Chloroform	mg/l	0.0273	0.0298	109.	63-129	8.44	20	L737329-07	WG758515
Chloromethane	mg/l	0.0229	0.0266	91.6	42.4-135	15.0	20	L737329-07	WG758515
cis-1,2-Dichloroethene	mg/l	0.0274	0.0292	109.	59.2-129	6.53	20	L737329-07	WG758515
cis-1,3-Dichloropropene	mg/l	0.0300	0.0303	120.	66.4-125	0.980	20	L737329-07	WG758515
Di-isopropyl ether	mg/l	0.0275	0.0298	110.	56.9-136	8.26	20	L737329-07	WG758515
Dibromomethane	mg/l	0.0277	0.0283	111.	68.2-124	2.20	20	L737329-07	WG758515
Dichlorodifluoromethane	mg/l	0.0268	0.0303	107.	40.6-144	12.1	20.2	L737329-07	WG758515
Ethylbenzene	mg/l	0.119	0.117	57.0*	61.4-133	1.95	20	L737329-07	WG758515
Hexachloro-1,3-butadiene	mg/l	0.0310	0.0322	124.	55.1-136	3.93	23.6	L737329-07	WG758515
Isopropylbenzene	mg/l	0.0485	0.0504	102.	66.8-141	3.97	20	L737329-07	WG758515
Methyl tert-butyl ether	mg/l	0.0270	0.0280	108.	57.7-134	3.36	20	L737329-07	WG758515
Methylene Chloride	mg/l	0.0242	0.0262	96.7	58.1-122	8.14	20	L737329-07	WG758515
n-Butylbenzene	mg/l	0.0312	0.0326	120.	62.7-140	4.44	20.3	L737329-07	WG758515
n-Propylbenzene	mg/l	0.0321	0.0330	111.	65.9-131	2.68	20	L737329-07	WG758515
Naphthalene	mg/l	0.373	0.361	65.7	58-135	3.19	25.5	L737329-07	WG758515
p-Isopropyltoluene	mg/l	0.0344	0.0344	138.	63.2-139	0.0500	20.4	L737329-07	WG758515
sec-Butylbenzene	mg/l	0.0303	0.0308	119.	62.2-136	1.93	20.3	L737329-07	WG758515
Styrene	mg/l	0.0279	0.0276	111.	66.8-133	0.970	20	L737329-07	WG758515
tert-Butylbenzene	mg/l	0.0289	0.0303	116.	63.3-134	4.63	21	L737329-07	WG758515
Tetrachloroethene	mg/l	0.0278	0.0279	111.	53-139	0.240	20	L737329-07	WG758515

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Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Toluene	mg/l	0.0323	0.0332	106.	61.4-130	2.62	20	L737329-07	WG758515
trans-1,2-Dichloroethene	mg/l	0.0269	0.0297	107.	56.5-129	9.91	20	L737329-07	WG758515
trans-1,3-Dichloropropene	mg/l	0.0311	0.0302	124.	64.1-128	3.06	20	L737329-07	WG758515
Trichloroethene	mg/l	0.0282	0.0290	113.	44.1-149	2.94	20	L737329-07	WG758515
Trichlorofluoromethane	mg/l	0.0305	0.0333	122.	49.6-145	8.87	21.2	L737329-07	WG758515
Vinyl chloride	mg/l	0.0261	0.0307	104.	47.8-137	16.3	20	L737329-07	WG758515
Xylenes, Total	mg/l	0.156	0.157	93.6	63.3-131	0.640	20	L737329-07	WG758515
4-Bromofluorobenzene				104.0	71-126				WG758515
Dibromofluoromethane				104.0	78.3-121				WG758515
Toluene-d8				109.0	88.5-111				WG758515
1,2,4-Trichlorobenzene	mg/l	0.0141	0.0168	56.6	21.4-101	17.1	31.3	L737082-08	WG758449
2,4,6-Trichlorophenol	mg/l	0.0180	0.0191	72.1	19.1-114	5.79	29.9	L737082-08	WG758449
2,4-Dichlorophenol	mg/l	0.0164	0.0178	65.8	34.7-107	7.66	27.3	L737082-08	WG758449
2,4-Dimethylphenol	mg/l	0.00942	0.0100	37.7	10-152	6.24	35.4	L737082-08	WG758449
2,4-Dinitrophenol	mg/l	0.0191	0.0186	76.3	10-136	2.43	40	L737082-08	WG758449
2,4-Dinitrotoluene	mg/l	0.0167	0.0172	66.6	16.2-135	3.43	20.6	L737082-08	WG758449
2,6-Dinitrotoluene	mg/l	0.0165	0.0177	65.9	25.2-124	7.09	22.2	L737082-08	WG758449
2-Chloronaphthalene	mg/l	0.0176	0.0200	70.2	29.7-114	12.8	24.2	L737082-08	WG758449
2-Chlorophenol	mg/l	0.0122	0.0139	48.7	13.9-105	13.4	32.4	L737082-08	WG758449
2-Nitrophenol	mg/l	0.0140	0.0164	56.0	26.7-114	16.0	34	L737082-08	WG758449
3,3-Dichlorobenzidine	mg/l	0.0181	0.0191	72.4	10-162	5.37	26.9	L737082-08	WG758449
4,6-Dinitro-2-methylphenol	mg/l	0.0227	0.0228	90.8	10-151	0.450	37.4	L737082-08	WG758449
4-Bromophenyl-phenylether	mg/l	0.0186	0.0207	74.5	34.3-135	10.5	23.2	L737082-08	WG758449
4-Chloro-3-methylphenol	mg/l	0.0163	0.0170	65.1	35.7-110	4.15	20	L737082-08	WG758449
4-Chlorophenyl-phenylether	mg/l	0.0182	0.0192	72.8	35.6-127	5.17	20	L737082-08	WG758449
4-Nitrophenol	mg/l	0.00924	0.00968	37.0	10-130	4.64	40	L737082-08	WG758449
Acenaphthene	mg/l	0.0177	0.0192	67.4	30.7-124	8.55	22.6	L737082-08	WG758449
Acenaphthylene	mg/l	0.0175	0.0196	70.0	29-122	11.1	23.9	L737082-08	WG758449
Anthracene	mg/l	0.0168	0.0179	67.2	34.2-135	6.27	20	L737082-08	WG758449
Benzidine	mg/l	0.0165	0.0144	66.2	10-159	13.5	40	L737082-08	WG758449
Benzo(a)anthracene	mg/l	0.0183	0.0199	73.2	35.7-138	8.22	20	L737082-08	WG758449
Benzo(a)pyrene	mg/l	0.0154	0.0172	61.7	23.3-135	11.1	20	L737082-08	WG758449
Benzo(b)fluoranthene	mg/l	0.0157	0.0186	62.7	23-145	16.8	20	L737082-08	WG758449
Benzo(g,h,i)perylene	mg/l	0.0188	0.0215	75.1	10-148	13.5	21	L737082-08	WG758449
Benzo(k)fluoranthene	mg/l	0.0159	0.0169	63.8	29.5-143	5.58	20	L737082-08	WG758449
Benzylbutyl phthalate	mg/l	0.0174	0.0185	64.2	13.3-159	6.17	21.2	L737082-08	WG758449
Bis(2-chlorethoxy)methane	mg/l	0.0149	0.0165	59.6	26.4-127	9.98	25.8	L737082-08	WG758449
Bis(2-chloroethyl)ether	mg/l	0.0113	0.0139	45.2	10-154	20.5	40	L737082-08	WG758449
Bis(2-chloroisopropyl)ether	mg/l	0.0138	0.0166	55.1	19.4-126	18.9	37.2	L737082-08	WG758449
Bis(2-ethylhexyl)phthalate	mg/l	0.0143	0.0155	49.9	15.5-152	8.20	27.6	L737082-08	WG758449
Chrysene	mg/l	0.0175	0.0194	70.2	37-145	10.2	20	L737082-08	WG758449
Di-n-butyl phthalate	mg/l	0.0160	0.0170	57.4	26-152	6.05	20	L737082-08	WG758449
Di-n-octyl phthalate	mg/l	0.0141	0.0155	49.4	12.3-145	9.10	22.9	L737082-08	WG758449
Dibenz(a,h)anthracene	mg/l	0.0162	0.0181	64.8	10-147	11.2	22.3	L737082-08	WG758449
Diethyl phthalate	mg/l	0.0193	0.0206	77.1	21.6-154	6.40	20	L737082-08	WG758449
Dimethyl phthalate	mg/l	0.0187	0.0199	75.0	10-157	6.18	20	L737082-08	WG758449
Fluoranthene	mg/l	0.0163	0.0175	65.2	37.1-139	7.13	20	L737082-08	WG758449
Fluorene	mg/l	0.0181	0.0195	70.5	10-162	7.51	20	L737082-08	WG758449
Hexachloro-1,3-butadiene	mg/l	0.0136	0.0159	54.3	15.7-109	15.5	37.6	L737082-08	WG758449
Hexachlorobenzene	mg/l	0.0193	0.0206	77.2	31.9-135	6.30	20	L737082-08	WG758449
Hexachlorocyclopentadiene	mg/l	0.0109	0.0127	43.7	10-123	14.7	27.8	L737082-08	WG758449
Hexachloroethane	mg/l	0.0129	0.0145	51.7	10.4-105	11.8	40	L737082-08	WG758449
Indeno(1,2,3-cd)pyrene	mg/l	0.0178	0.0202	71.1	10-145	12.8	20	L737082-08	WG758449
Isophorone	mg/l	0.0160	0.0179	64.1	25.9-133	11.3	22.9	L737082-08	WG758449
n-Nitrosodi-n-propylamine	mg/l	0.0134	0.0159	53.4	23.9-125	17.1	29.7	L737082-08	WG758449
n-Nitrosodimethylamine	mg/l	0.00672	0.00850	26.9	10-94.5	23.4	40	L737082-08	WG758449
n-Nitrosodiphenylamine	mg/l	0.0189	0.0202	75.7	20.6-150	6.49	20	L737082-08	WG758449

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Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Naphthalene	mg/l	0.0138	0.0161	54.3	20.2-114	15.7	27.5	L737082-08	WG758449
Nitrobenzene	mg/l	0.0130	0.0153	51.8	23.1-121	16.5	29	L737082-08	WG758449
Pentachlorophenol	mg/l	0.0148	0.0156	59.4	10-108	4.98	40	L737082-08	WG758449
Phenanthrene	mg/l	0.0178	0.0195	71.0	33-139	9.57	20	L737082-08	WG758449
Phenol	mg/l	0.00633	0.00738	25.3	10-64.1	15.3	40	L737082-08	WG758449
Pyrene	mg/l	0.0185	0.0203	74.1	35.5-139	8.96	20	L737082-08	WG758449
2,4,6-Tribromophenol				59.60	11.2-130				WG758449
2-Fluorobiphenyl				64.40	29.5-131				WG758449
2-Fluorophenol				29.40	10-77.9				WG758449
Nitrobenzene-d5				46.00	21.8-123				WG758449
Phenol-d5				22.60	5-70.1				WG758449
p-Terphenyl-d14				56.50	29.3-137				WG758449
1,1,1,2-Tetrachloroethane	mg/l	0.0269	0.0272	108.	64-128	0.980	20	L737478-18	WG758838
1,1,1-Trichloroethane	mg/l	0.0291	0.0314	116.	58.7-134	7.42	20	L737478-18	WG758838
1,1,2,2-Tetrachloroethane	mg/l	0.0301	0.0305	120.	56-132	1.08	22.2	L737478-18	WG758838
1,1,2-Trichloroethane	mg/l	0.0240	0.0250	96.1	66.3-125	3.88	20	L737478-18	WG758838
1,1,2-Trichlorotrifluoroethane	mg/l	0.0261	0.0282	104.	54.8-154	7.75	22.5	L737478-18	WG758838
1,1-Dichloroethane	mg/l	0.0296	0.0312	118.	58.5-132	5.10	20	L737478-18	WG758838
1,1-Dichloroethene	mg/l	0.0250	0.0264	99.8	51.1-140	5.66	20.2	L737478-18	WG758838
1,1-Dichloropropene	mg/l	0.0283	0.0303	113.	57.3-136	6.83	20	L737478-18	WG758838
1,2,3-Trichlorobenzene	mg/l	0.0326	0.0320	130.	59.1-138	1.85	23.7	L737478-18	WG758838
1,2,3-Trichloropropane	mg/l	0.0266	0.0259	106.	61.4-128	2.39	22.4	L737478-18	WG758838
1,2,3-Trimethylbenzene	mg/l	0.0299	0.0306	119.	61.3-122	2.40	20	L737478-18	WG758838
1,2,4-Trichlorobenzene	mg/l	0.0322	0.0319	129.	63.6-143	1.02	21.9	L737478-18	WG758838
1,2,4-Trimethylbenzene	mg/l	0.0281	0.0292	112.	57.4-137	4.09	20	L737478-18	WG758838
1,2-Dibromo-3-Chloropropane	mg/l	0.0278	0.0279	111.	57.3-136	0.490	27	L737478-18	WG758838
1,2-Dibromoethane	mg/l	0.0246	0.0246	98.2	67.1-125	0.360	20	L737478-18	WG758838
1,2-Dichlorobenzene	mg/l	0.0284	0.0291	114.	68.2-123	2.66	20	L737478-18	WG758838
1,2-Dichloroethane	mg/l	0.0254	0.0258	102.	60-126	1.52	20	L737478-18	WG758838
1,2-Dichloropropane	mg/l	0.0277	0.0295	111.	64.2-123	6.34	20	L737478-18	WG758838
1,3,5-Trimethylbenzene	mg/l	0.0282	0.0297	113.	63.6-132	5.24	20.5	L737478-18	WG758838
1,3-Dichlorobenzene	mg/l	0.0261	0.0271	104.	63.1-131	3.64	20	L737478-18	WG758838
1,3-Dichloropropane	mg/l	0.0230	0.0240	91.9	67.9-121	4.32	20	L737478-18	WG758838
1,4-Dichlorobenzene	mg/l	0.0262	0.0277	105.	68.6-123	5.48	20	L737478-18	WG758838
2,2-Dichloropropane	mg/l	0.0290	0.0305	116.	50.5-144	5.25	21.9	L737478-18	WG758838
2-Butanone (MEK)	mg/l	0.152	0.163	121.	22.4-138	7.46	27	L737478-18	WG758838
2-Chloroethyl vinyl ether	mg/l	0.0187	0.0634	15.0	10-155	109.*	20	L737478-18	WG758838
2-Chlorotoluene	mg/l	0.0272	0.0287	109.	63.6-128	5.27	20	L737478-18	WG758838
4-Chlorotoluene	mg/l	0.0260	0.0274	104.	65.7-127	5.49	20	L737478-18	WG758838
4-Methyl-2-pentanone (MIBK)	mg/l	0.139	0.146	111.	60.8-140	5.04	25.1	L737478-18	WG758838
Acetone	mg/l	0.161	0.162	125.	10-130	0.770	27.9	L737478-18	WG758838
Acrolein	mg/l	0.200	0.200	160.	10-200	0.0200	27.7	L737478-18	WG758838
Acrylonitrile	mg/l	0.169	0.167	135.*	49.4-133	0.930	25.3	L737478-18	WG758838
Benzene	mg/l	0.0278	0.0292	111.	54.3-133	4.99	20	L737478-18	WG758838
Bromobenzene	mg/l	0.0260	0.0270	104.	63.9-124	3.70	20	L737478-18	WG758838
Bromodichloromethane	mg/l	0.0254	0.0261	101.	63.9-121	2.66	20	L737478-18	WG758838
Bromoform	mg/l	0.0244	0.0247	97.4	59.5-134	1.22	20.5	L737478-18	WG758838
Bromomethane	mg/l	0.0258	0.0269	103.	41.7-155	4.13	21.9	L737478-18	WG758838
Carbon tetrachloride	mg/l	0.0294	0.0317	118.	55.7-134	7.73	20	L737478-18	WG758838
Chlorobenzene	mg/l	0.0250	0.0260	100.	67-125	3.96	20	L737478-18	WG758838
Chlorodibromomethane	mg/l	0.0241	0.0244	96.3	64.3-125	1.53	20.8	L737478-18	WG758838
Chloroethane	mg/l	0.0274	0.0289	110.	51.5-136	5.31	40	L737478-18	WG758838
Chloroform	mg/l	0.0285	0.0298	114.	63-129	4.43	20	L737478-18	WG758838
Chloromethane	mg/l	0.0276	0.0294	110.	42.4-135	6.49	20	L737478-18	WG758838
cis-1,2-Dichloroethene	mg/l	0.0295	0.0307	118.	59.2-129	4.25	20	L737478-18	WG758838
cis-1,3-Dichloropropene	mg/l	0.0248	0.0265	99.1	66.4-125	6.63	20	L737478-18	WG758838
Di-isopropyl ether	mg/l	0.0297	0.0308	119.	56.9-136	3.91	20	L737478-18	WG758838

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Golden, CO 80401

Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	MSD	Matrix Spike Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Dibromomethane	mg/l	0.0262	0.0272	105.	68.2-124	3.85	20	L737478-18	WG758838
Dichlorodifluoromethane	mg/l	0.0268	0.0296	107.	40.6-144	10.0	20.2	L737478-18	WG758838
Ethylbenzene	mg/l	0.0258	0.0273	103.	61.4-133	5.65	20	L737478-18	WG758838
Hexachloro-1,3-butadiene	mg/l	0.0314	0.0323	126.	55.1-136	2.76	23.6	L737478-18	WG758838
Isopropylbenzene	mg/l	0.0286	0.0302	114.	66.8-141	5.47	20	L737478-18	WG758838
Methyl tert-butyl ether	mg/l	0.0291	0.0291	116.	57.7-134	0.0900	20	L737478-18	WG758838
Methylene Chloride	mg/l	0.0291	0.0310	112.	58.1-122	6.17	20	L737478-18	WG758838
n-Butylbenzene	mg/l	0.0326	0.0341	130.	62.7-140	4.50	20.3	L737478-18	WG758838
n-Propylbenzene	mg/l	0.0282	0.0303	113.	65.9-131	6.94	20	L737478-18	WG758838
Naphthalene	mg/l	0.0312	0.0299	125.	58-135	4.34	25.5	L737478-18	WG758838
p-Isopropyltoluene	mg/l	0.0298	0.0321	119.	63.2-139	7.37	20.4	L737478-18	WG758838
sec-Butylbenzene	mg/l	0.0296	0.0314	118.	62.2-136	6.07	20.3	L737478-18	WG758838
Styrene	mg/l	0.0268	0.0288	107.	66.8-133	7.03	20	L737478-18	WG758838
tert-Butylbenzene	mg/l	0.0290	0.0308	116.	63.3-134	6.02	21	L737478-18	WG758838
Tetrachloroethene	mg/l	0.0257	0.0266	103.	53-139	3.51	20	L737478-18	WG758838
Toluene	mg/l	0.0252	0.0276	101.	61.4-130	9.23	20	L737478-18	WG758838
trans-1,2-Dichloroethene	mg/l	0.0279	0.0293	111.	56.5-129	5.02	20	L737478-18	WG758838
trans-1,3-Dichloropropene	mg/l	0.0236	0.0237	94.3	64.1-128	0.480	20	L737478-18	WG758838
Trichloroethene	mg/l	0.0244	0.0261	97.5	44.1-149	6.69	20	L737478-18	WG758838
Trichlorofluoromethane	mg/l	0.0280	0.0301	112.	49.6-145	7.13	21.2	L737478-18	WG758838
Vinyl chloride	mg/l	0.0279	0.0295	112.	47.8-137	5.43	20	L737478-18	WG758838
Xylenes, Total	mg/l	0.0777	0.0831	104.	63.3-131	6.80	20	L737478-18	WG758838
4-Bromofluorobenzene				98.60	71-126				WG758838
Dibromofluoromethane				107.0	78.3-121				WG758838
Toluene-d8				102.0	88.5-111				WG758838
Naphthalene	mg/l	0.0229	0.0224	91.5	58-135	2.37	25.5	L737699-01	WG759244
4-Bromofluorobenzene				98.10	71-126				WG759244
Dibromofluoromethane				92.80	78.3-121				WG759244
Toluene-d8				101.0	88.5-111				WG759244
1,2,4-Trichlorobenzene	mg/l	0.0175	0.0177	70.2	21.4-101	1.16	31.3	L737329-07	WG758672
2,4,6-Trichlorophenol	mg/l	0.0223	0.0232	89.2	19.1-114	3.81	29.9	L737329-07	WG758672
2,4-Dichlorophenol	mg/l	0.0202	0.0215	81.0	34.7-107	5.82	27.3	L737329-07	WG758672
2,4-Dimethylphenol	mg/l	0.0200	0.0208	80.2	10-152	3.80	35.4	L737329-07	WG758672
2,4-Dinitrophenol	mg/l	0.0170	0.0162	68.0	10-136	4.92	40	L737329-07	WG758672
2,4-Dinitrotoluene	mg/l	0.0245	0.0246	98.1	16.2-135	0.430	20.6	L737329-07	WG758672
2,6-Dinitrotoluene	mg/l	0.0224	0.0223	89.7	25.2-124	0.450	22.2	L737329-07	WG758672
2-Chloronaphthalene	mg/l	0.0213	0.0217	85.1	29.7-114	2.01	24.2	L737329-07	WG758672
2-Chlorophenol	mg/l	0.0174	0.0177	69.6	13.9-105	1.56	32.4	L737329-07	WG758672
2-Nitrophenol	mg/l	0.0206	0.0201	82.2	26.7-114	2.47	34	L737329-07	WG758672
3,3-Dichlorobenzidine	mg/l	0.0132	0.0179	52.8	10-162	30.1*	26.9	L737329-07	WG758672
4,6-Dinitro-2-methylphenol	mg/l	0.0196	0.0199	78.5	10-151	1.21	37.4	L737329-07	WG758672
4-Bromophenyl-phenylether	mg/l	0.0215	0.0221	86.1	34.3-135	2.70	23.2	L737329-07	WG758672
4-Chloro-3-methylphenol	mg/l	0.0214	0.0223	85.7	35.7-110	4.12	20	L737329-07	WG758672
4-Chlorophenyl-phenylether	mg/l	0.0213	0.0222	85.2	35.6-127	3.99	20	L737329-07	WG758672
4-Nitrophenol	mg/l	0.0109	0.0110	43.4	10-130	1.60	40	L737329-07	WG758672
Acenaphthene	mg/l	0.148	0.140	154.*	30.7-124	5.10	22.6	L737329-07	WG758672
Acenaphthylene	mg/l	0.0753	0.0716	122.	29-122	5.06	23.9	L737329-07	WG758672
Anthracene	mg/l	0.0315	0.0307	93.9	34.2-135	2.59	20	L737329-07	WG758672
Benzidine	mg/l	0.00386	0.00439	15.4	10-159	13.0	40	L737329-07	WG758672
Benzo(a)anthracene	mg/l	0.0224	0.0226	88.4	35.7-138	0.640	20	L737329-07	WG758672
Benzo(a)pyrene	mg/l	0.0212	0.0217	84.9	23.3-135	2.33	20	L737329-07	WG758672
Benzo(b)fluoranthene	mg/l	0.0212	0.0218	84.6	23-145	3.14	20	L737329-07	WG758672
Benzo(g,h,i)perylene	mg/l	0.0193	0.0203	77.3	10-148	4.90	21	L737329-07	WG758672
Benzo(k)fluoranthene	mg/l	0.0195	0.0201	78.0	29.5-143	3.09	20	L737329-07	WG758672
Benzylbutyl phthalate	mg/l	0.0237	0.0240	94.6	13.3-159	1.43	21.2	L737329-07	WG758672

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Quality Assurance Report
Level II

L737329

December 12, 2014

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Bis(2-chlorethoxy)methane	mg/l	0.0204	0.0208	81.4	26.4-127	1.98	25.8	L737329-07	WG758672
Bis(2-chloroethyl)ether	mg/l	0.0189	0.0188	75.7	10-154	0.460	40	L737329-07	WG758672
Bis(2-chloroisopropyl)ether	mg/l	0.0200	0.0192	79.8	19.4-126	3.81	37.2	L737329-07	WG758672
Bis(2-ethylhexyl)phthalate	mg/l	0.0153	0.0169	58.0	15.5-152	10.2	27.6	L737329-07	WG758672
Chrysene	mg/l	0.0220	0.0232	87.4	37-145	5.17	20	L737329-07	WG758672
Di-n-butyl phthalate	mg/l	0.0222	0.0231	87.9	26-152	4.16	20	L737329-07	WG758672
Di-n-octyl phthalate	mg/l	0.0148	0.0167	59.0	12.3-145	12.3	22.9	L737329-07	WG758672
Dibenz(a,h)anthracene	mg/l	0.0183	0.0192	73.1	10-147	4.69	22.3	L737329-07	WG758672
Diethyl phthalate	mg/l	0.0226	0.0236	90.4	21.6-154	4.30	20	L737329-07	WG758672
Dimethyl phthalate	mg/l	0.0222	0.0226	88.8	10-157	1.98	20	L737329-07	WG758672
Fluoranthene	mg/l	0.0259	0.0260	92.1	37.1-139	0.390	20	L737329-07	WG758672
Fluorene	mg/l	0.0506	0.0490	102.	10-162	3.37	20	L737329-07	WG758672
Hexachloro-1,3-butadiene	mg/l	0.0174	0.0176	69.6	15.7-109	1.18	37.6	L737329-07	WG758672
Hexachlorobenzene	mg/l	0.0216	0.0227	86.6	31.9-135	4.98	20	L737329-07	WG758672
Hexachlorocyclopentadiene	mg/l	0.0125	0.0123	49.9	10-123	1.43	27.8	L737329-07	WG758672
Hexachloroethane	mg/l	0.0277	0.0266	111.*	10.4-105	4.37	40	L737329-07	WG758672
Indeno(1,2,3-cd)pyrene	mg/l	0.0190	0.0198	76.1	10-145	4.03	20	L737329-07	WG758672
Isophorone	mg/l	0.0227	0.0233	90.6	25.9-133	2.89	22.9	L737329-07	WG758672
n-Nitrosodi-n-propylamine	mg/l	0.0206	0.0202	82.3	23.9-125	1.74	29.7	L737329-07	WG758672
n-Nitrosodimethylamine	mg/l	0.0111	0.0121	44.4	10-94.5	8.27	40	L737329-07	WG758672
n-Nitrosodiphenylamine	mg/l	0.0227	0.0238	90.8	20.6-150	4.78	20	L737329-07	WG758672
Naphthalene	mg/l	0.204	0.185	193.*	20.2-114	9.79	27.5	L737329-07	WG758672
Nitrobenzene	mg/l	0.0209	0.0210	83.7	23.1-121	0.200	29	L737329-07	WG758672
Pentachlorophenol	mg/l	0.0210	0.0218	84.0	10-108	3.71	40	L737329-07	WG758672
Phenanthrene	mg/l	0.0612	0.0581	104.	33-139	5.20	20	L737329-07	WG758672
Phenol	mg/l	0.0130	0.0141	39.2	10-64.1	7.69	40	L737329-07	WG758672
Pyrene	mg/l	0.0269	0.0269	92.5	35.5-139	0.0	20	L737329-07	WG758672
2,4,6-Tribromophenol				86.50	11.2-130				WG758672
2-Fluorobiphenyl				79.20	29.5-131				WG758672
2-Fluorophenol				44.20	10-77.9				WG758672
Nitrobenzene-d5				70.50	21.8-123				WG758672
Phenol-d5				34.30	5-70.1				WG758672
p-Terphenyl-d14				77.70	29.3-137				WG758672
Naphthalene	mg/l	0.0259	0.0266	104.	58-135	2.67	25.5	L737592-02	WG759264
4-Bromofluorobenzene				102.0	71-126				WG759264
Dibromofluoromethane				104.0	78.3-121				WG759264
Toluene-d8				108.0	88.5-111				WG759264

Batch number /Run number / Sample number cross reference

WG758515: R3008709: L737329-01 02 03 04 05 06 07 08
WG758449: R3008840 R3008902 R3009080: L737329-01 02 04
WG758669: R3008899: L737329-05 10 12
WG758838: R3009173: L737329-03 04 05 06 07 08 09 10 11 12 13
WG758672: R3009204 R3009457: L737329-03 06 07 08 09 11 13
WG759244: R3009315: L737329-12 13
WG759264: R3009671: L737329-09 10 11

* * Calculations are performed prior to rounding of reported values.
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Quality Assurance Report
Level II

L737329

December 12, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Report Summary

Monday March 02, 2015

Report Number: L749844
Samples Received: 02/21/15
Client Project: 5047-RC-C100

Description: Boulder 13th Street Plaza

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Darren Reeder , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 02, 2015

ESC Sample # : L749844-01

Date Received : February 21, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW-14-021915

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 02/19/15 09:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/kg		8260B	02/27/15	5
Acrylonitrile	U	0.0090	0.050	mg/kg		8260B	02/27/15	5
Benzene	U	0.0014	0.0050	mg/kg		8260B	02/27/15	5
Bromobenzene	U	0.0014	0.0050	mg/kg		8260B	02/27/15	5
Bromodichloromethane	U	0.0013	0.0050	mg/kg		8260B	02/27/15	5
Bromoform	U	0.0021	0.0050	mg/kg		8260B	02/27/15	5
Bromomethane	U	0.0067	0.025	mg/kg		8260B	02/27/15	5
n-Butylbenzene	U	0.0013	0.0050	mg/kg		8260B	02/27/15	5
sec-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	02/27/15	5
tert-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	02/27/15	5
Carbon tetrachloride	U	0.0016	0.0050	mg/kg		8260B	02/27/15	5
Chlorobenzene	U	0.0011	0.0050	mg/kg		8260B	02/27/15	5
Chlorodibromomethane	U	0.0019	0.0050	mg/kg		8260B	02/27/15	5
Chloroethane	U	0.0047	0.025	mg/kg	J4	8260B	02/27/15	5
2-Chloroethyl vinyl ether	U	0.012	0.25	mg/kg	J4	8260B	02/27/15	5
Chloroform	U	0.0011	0.025	mg/kg		8260B	02/27/15	5
Chloromethane	U	0.0019	0.013	mg/kg		8260B	02/27/15	5
2-Chlorotoluene	U	0.0015	0.0050	mg/kg		8260B	02/27/15	5
4-Chlorotoluene	U	0.0012	0.0050	mg/kg		8260B	02/27/15	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.025	mg/kg		8260B	02/27/15	5
1,2-Dibromoethane	U	0.0017	0.0050	mg/kg		8260B	02/27/15	5
Dibromomethane	U	0.0019	0.0050	mg/kg		8260B	02/27/15	5
1,2-Dichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	02/27/15	5
1,3-Dichlorobenzene	U	0.0012	0.0050	mg/kg		8260B	02/27/15	5
1,4-Dichlorobenzene	U	0.0011	0.0050	mg/kg		8260B	02/27/15	5
Dichlorodifluoromethane	U	0.0036	0.025	mg/kg		8260B	02/27/15	5
1,1-Dichloroethane	U	0.0010	0.0050	mg/kg		8260B	02/27/15	5
1,2-Dichloroethane	U	0.0013	0.0050	mg/kg		8260B	02/27/15	5
1,1-Dichloroethene	U	0.0015	0.0050	mg/kg		8260B	02/27/15	5
cis-1,2-Dichloroethene	U	0.0012	0.0050	mg/kg		8260B	02/27/15	5
trans-1,2-Dichloroethene	U	0.0013	0.0050	mg/kg		8260B	02/27/15	5
1,2-Dichloropropane	U	0.0018	0.0050	mg/kg		8260B	02/27/15	5
1,1-Dichloropropene	U	0.0016	0.0050	mg/kg		8260B	02/27/15	5
1,3-Dichloropropane	U	0.0010	0.0050	mg/kg		8260B	02/27/15	5
cis-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	02/27/15	5
trans-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	02/27/15	5
2,2-Dichloropropane	U	0.0014	0.0050	mg/kg		8260B	02/27/15	5
Di-isopropyl ether	U	0.0012	0.0050	mg/kg		8260B	02/27/15	5
Ethylbenzene	U	0.0015	0.0050	mg/kg		8260B	02/27/15	5
Hexachloro-1,3-butadiene	U	0.0017	0.0050	mg/kg		8260B	02/27/15	5
Isopropylbenzene	U	0.0012	0.0050	mg/kg		8260B	02/27/15	5
p-Isopropyltoluene	U	0.0010	0.0050	mg/kg		8260B	02/27/15	5

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
The reported analytical results relate only to the sample submitted.
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 02, 2015

ESC Sample # : L749844-01

Date Received : February 21, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW-14-021915

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 02/19/15 09:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Butanone (MEK)	U	0.023	0.050	mg/kg		8260B	02/27/15	5
Methylene Chloride	U	0.0050	0.025	mg/kg		8260B	02/27/15	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.050	mg/kg		8260B	02/27/15	5
Methyl tert-butyl ether	U	0.0011	0.0050	mg/kg		8260B	02/27/15	5
Naphthalene	U	0.0050	0.025	mg/kg		8260B	02/27/15	5
n-Propylbenzene	U	0.0010	0.0050	mg/kg		8260B	02/27/15	5
Styrene	U	0.0012	0.0050	mg/kg		8260B	02/27/15	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0050	mg/kg		8260B	02/27/15	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0050	mg/kg		8260B	02/27/15	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0050	mg/kg		8260B	02/27/15	5
Tetrachloroethene	U	0.0014	0.0050	mg/kg		8260B	02/27/15	5
Toluene	U	0.0022	0.025	mg/kg		8260B	02/27/15	5
1,2,3-Trichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	02/27/15	5
1,2,4-Trichlorobenzene	U	0.0019	0.0050	mg/kg		8260B	02/27/15	5
1,1,1-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	02/27/15	5
1,1,2-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	02/27/15	5
Trichloroethene	U	0.0014	0.0050	mg/kg		8260B	02/27/15	5
Trichlorofluoromethane	U	0.0019	0.025	mg/kg		8260B	02/27/15	5
1,2,3-Trichloropropane	U	0.0037	0.013	mg/kg		8260B	02/27/15	5
1,2,4-Trimethylbenzene	U	0.0010	0.0050	mg/kg		8260B	02/27/15	5
1,2,3-Trimethylbenzene	U	0.0014	0.0050	mg/kg		8260B	02/27/15	5
Vinyl chloride	U	0.0014	0.0050	mg/kg		8260B	02/27/15	5
1,3,5-Trimethylbenzene	U	0.0013	0.0050	mg/kg		8260B	02/27/15	5
Xylenes, Total	U	0.0035	0.015	mg/kg		8260B	02/27/15	5
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	02/27/15	1
Dibromofluoromethane	106.			% Rec.		8260B	02/27/15	1
4-Bromofluorobenzene	89.4			% Rec.		8260B	02/27/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.088	0.0060	0.060	mg/kg		8270C-S	02/25/15	10
Acenaphthene	U	0.0060	0.060	mg/kg		8270C-S	02/25/15	10
Acenaphthylene	U	0.0060	0.060	mg/kg		8270C-S	02/25/15	10
Benzo(a)anthracene	0.016	0.0060	0.060	mg/kg	J	8270C-S	02/25/15	10
Benzo(a)pyrene	0.019	0.0060	0.060	mg/kg	J	8270C-S	02/25/15	10
Benzo(b)fluoranthene	0.014	0.0060	0.060	mg/kg	J	8270C-S	02/25/15	10
Benzo(g,h,i)perylene	0.10	0.0060	0.060	mg/kg		8270C-S	02/25/15	10
Benzo(k)fluoranthene	U	0.0060	0.060	mg/kg		8270C-S	02/25/15	10
Chrysene	0.0085	0.0060	0.060	mg/kg	J	8270C-S	02/25/15	10
Dibenz(a,h)anthracene	U	0.0060	0.060	mg/kg		8270C-S	02/25/15	10
Fluoranthene	0.0087	0.0060	0.060	mg/kg	J	8270C-S	02/25/15	10
Fluorene	0.010	0.0060	0.060	mg/kg	J	8270C-S	02/25/15	10
Indeno(1,2,3-cd)pyrene	0.014	0.0060	0.060	mg/kg	J	8270C-S	02/25/15	10

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 02, 2015

ESC Sample # : L749844-01

Date Received : February 21, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW-14-021915

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 02/19/15 09:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Naphthalene	0.078	0.020	0.20	mg/kg	J	8270C-S	02/25/15	10
Phenanthrene	0.0060	0.0060	0.060	mg/kg	J	8270C-S	02/25/15	10
Pyrene	0.022	0.0060	0.060	mg/kg	J	8270C-S	02/25/15	10
1-Methylnaphthalene	U	0.020	0.20	mg/kg		8270C-S	02/25/15	10
2-Methylnaphthalene	0.069	0.020	0.20	mg/kg	J	8270C-S	02/25/15	10
2-Chloronaphthalene	U	0.020	0.20	mg/kg		8270C-S	02/25/15	10
Surrogate Recovery								
p-Terphenyl-d14	75.4			% Rec.		8270C-S	02/25/15	10
Nitrobenzene-d5	18.9			% Rec.	J2	8270C-S	02/25/15	10
2-Fluorobiphenyl	71.5			% Rec.		8270C-S	02/25/15	10

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 02, 2015

ESC Sample # : L749844-02

Date Received : February 21, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW15-021915

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 02/19/15 12:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	1.0	5.0	mg/kg		8260B	02/28/15	100
Acrylonitrile	U	0.18	1.0	mg/kg		8260B	02/28/15	100
Benzene	U	0.027	0.10	mg/kg		8260B	02/28/15	100
Bromobenzene	U	0.028	0.10	mg/kg		8260B	02/28/15	100
Bromodichloromethane	U	0.025	0.10	mg/kg		8260B	02/28/15	100
Bromoform	U	0.042	0.10	mg/kg		8260B	02/28/15	100
Bromomethane	U	0.13	0.50	mg/kg		8260B	02/28/15	100
n-Butylbenzene	0.79	0.026	0.10	mg/kg		8260B	02/28/15	100
sec-Butylbenzene	0.83	0.020	0.10	mg/kg		8260B	02/28/15	100
tert-Butylbenzene	0.053	0.021	0.10	mg/kg	J	8260B	02/28/15	100
Carbon tetrachloride	U	0.033	0.10	mg/kg		8260B	02/28/15	100
Chlorobenzene	U	0.021	0.10	mg/kg		8260B	02/28/15	100
Chlorodibromomethane	U	0.037	0.10	mg/kg		8260B	02/28/15	100
Chloroethane	U	0.095	0.50	mg/kg		8260B	02/28/15	100
2-Chloroethyl vinyl ether	U	0.23	5.0	mg/kg		8260B	02/28/15	100
Chloroform	U	0.023	0.50	mg/kg		8260B	02/28/15	100
Chloromethane	U	0.038	0.25	mg/kg		8260B	02/28/15	100
2-Chlorotoluene	U	0.030	0.10	mg/kg		8260B	02/28/15	100
4-Chlorotoluene	U	0.024	0.10	mg/kg		8260B	02/28/15	100
1,2-Dibromo-3-Chloropropane	U	0.10	0.50	mg/kg		8260B	02/28/15	100
1,2-Dibromoethane	U	0.034	0.10	mg/kg		8260B	02/28/15	100
Dibromomethane	U	0.038	0.10	mg/kg		8260B	02/28/15	100
1,2-Dichlorobenzene	U	0.030	0.10	mg/kg		8260B	02/28/15	100
1,3-Dichlorobenzene	U	0.024	0.10	mg/kg		8260B	02/28/15	100
1,4-Dichlorobenzene	U	0.023	0.10	mg/kg		8260B	02/28/15	100
Dichlorodifluoromethane	U	0.071	0.50	mg/kg		8260B	02/28/15	100
1,1-Dichloroethane	U	0.020	0.10	mg/kg		8260B	02/28/15	100
1,2-Dichloroethane	U	0.026	0.10	mg/kg		8260B	02/28/15	100
1,1-Dichloroethene	U	0.030	0.10	mg/kg		8260B	02/28/15	100
cis-1,2-Dichloroethene	U	0.024	0.10	mg/kg		8260B	02/28/15	100
trans-1,2-Dichloroethene	U	0.026	0.10	mg/kg		8260B	02/28/15	100
1,2-Dichloropropane	U	0.036	0.10	mg/kg		8260B	02/28/15	100
1,1-Dichloropropene	U	0.032	0.10	mg/kg		8260B	02/28/15	100
1,3-Dichloropropane	U	0.021	0.10	mg/kg		8260B	02/28/15	100
cis-1,3-Dichloropropene	U	0.026	0.10	mg/kg		8260B	02/28/15	100
trans-1,3-Dichloropropene	U	0.027	0.10	mg/kg		8260B	02/28/15	100
2,2-Dichloropropane	U	0.028	0.10	mg/kg		8260B	02/28/15	100
Di-isopropyl ether	U	0.025	0.10	mg/kg		8260B	02/28/15	100
Ethylbenzene	0.13	0.030	0.10	mg/kg		8260B	02/28/15	100
Hexachloro-1,3-butadiene	U	0.034	0.10	mg/kg		8260B	02/28/15	100
Isopropylbenzene	0.46	0.024	0.10	mg/kg		8260B	02/28/15	100
p-Isopropyltoluene	1.1	0.020	0.10	mg/kg		8260B	02/28/15	100

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 02, 2015

ESC Sample # : L749844-02

Date Received : February 21, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW15-021915

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 02/19/15 12:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Butanone (MEK)	U	0.47	1.0	mg/kg		8260B	02/28/15	100
Methylene Chloride	U	0.10	0.50	mg/kg		8260B	02/28/15	100
4-Methyl-2-pentanone (MIBK)	U	0.19	1.0	mg/kg		8260B	02/28/15	100
Methyl tert-butyl ether	U	0.021	0.10	mg/kg		8260B	02/28/15	100
Naphthalene	41.	1.0	5.0	mg/kg		8260B	03/02/15	1000
n-Propylbenzene	0.66	0.021	0.10	mg/kg		8260B	02/28/15	100
Styrene	U	0.023	0.10	mg/kg		8260B	02/28/15	100
1,1,1,2-Tetrachloroethane	U	0.026	0.10	mg/kg		8260B	02/28/15	100
1,1,2,2-Tetrachloroethane	U	0.036	0.10	mg/kg		8260B	02/28/15	100
1,1,2-Trichlorotrifluoroethane	U	0.036	0.10	mg/kg		8260B	02/28/15	100
Tetrachloroethene	U	0.028	0.10	mg/kg		8260B	02/28/15	100
Toluene	U	0.043	0.50	mg/kg		8260B	02/28/15	100
1,2,3-Trichlorobenzene	U	0.031	0.10	mg/kg		8260B	02/28/15	100
1,2,4-Trichlorobenzene	U	0.039	0.10	mg/kg		8260B	02/28/15	100
1,1,1-Trichloroethane	U	0.029	0.10	mg/kg		8260B	02/28/15	100
1,1,2-Trichloroethane	U	0.028	0.10	mg/kg		8260B	02/28/15	100
Trichloroethene	U	0.028	0.10	mg/kg		8260B	02/28/15	100
Trichlorofluoromethane	U	0.038	0.50	mg/kg		8260B	02/28/15	100
1,2,3-Trichloropropane	U	0.074	0.25	mg/kg		8260B	02/28/15	100
1,2,4-Trimethylbenzene	8.6	0.021	0.10	mg/kg		8260B	02/28/15	100
1,2,3-Trimethylbenzene	3.6	0.029	0.10	mg/kg		8260B	02/28/15	100
Vinyl chloride	U	0.029	0.10	mg/kg		8260B	02/28/15	100
1,3,5-Trimethylbenzene	4.4	0.027	0.10	mg/kg		8260B	02/28/15	100
Xylenes, Total	1.3	0.070	0.30	mg/kg		8260B	02/28/15	100
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	02/28/15	1
Dibromofluoromethane	100.			% Rec.		8260B	02/28/15	1
4-Bromofluorobenzene	110.			% Rec.		8260B	02/28/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	4.2	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Acenaphthene	6.5	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Acenaphthylene	0.32	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Benzo(a)anthracene	3.8	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Benzo(a)pyrene	4.0	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Benzo(b)fluoranthene	3.1	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Benzo(g,h,i)perylene	1.8	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Benzo(k)fluoranthene	1.0	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Chrysene	3.2	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Dibenz(a,h)anthracene	0.51	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Fluoranthene	6.2	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Fluorene	5.4	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Indeno(1,2,3-cd)pyrene	1.4	0.0030	0.030	mg/kg		8270C-S	02/25/15	5

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REPORT OF ANALYSIS

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USA Environment, LP
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Golden, CO 80401

March 02, 2015

ESC Sample # : L749844-02

Date Received : February 21, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW15-021915

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 02/19/15 12:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Naphthalene	13.	0.010	0.10	mg/kg		8270C-S	02/25/15	5
Phenanthrene	19.	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Pyrene	10.	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
1-Methylnaphthalene	10.	0.010	0.10	mg/kg		8270C-S	02/25/15	5
2-Methylnaphthalene	12.	0.010	0.10	mg/kg		8270C-S	02/25/15	5
2-Chloronaphthalene	0.016	0.010	0.10	mg/kg	J	8270C-S	02/25/15	5
Surrogate Recovery								
p-Terphenyl-d14	83.8			% Rec.		8270C-S	02/25/15	5
Nitrobenzene-d5	34.9			% Rec.		8270C-S	02/25/15	5
2-Fluorobiphenyl	84.2			% Rec.		8270C-S	02/25/15	5

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
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Golden, CO 80401

March 02, 2015

ESC Sample # : L749844-03

Date Received : February 21, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW16-022015

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 02/19/15 08:20

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/kg		8260B	02/28/15	5
Acrylonitrile	U	0.0090	0.050	mg/kg		8260B	02/28/15	5
Benzene	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
Bromobenzene	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
Bromodichloromethane	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
Bromoform	U	0.0021	0.0050	mg/kg		8260B	02/28/15	5
Bromomethane	U	0.0067	0.025	mg/kg		8260B	02/28/15	5
n-Butylbenzene	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
sec-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	02/28/15	5
tert-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	02/28/15	5
Carbon tetrachloride	U	0.0016	0.0050	mg/kg		8260B	02/28/15	5
Chlorobenzene	U	0.0011	0.0050	mg/kg		8260B	02/28/15	5
Chlorodibromomethane	U	0.0019	0.0050	mg/kg		8260B	02/28/15	5
Chloroethane	U	0.0047	0.025	mg/kg		8260B	02/28/15	5
2-Chloroethyl vinyl ether	U	0.012	0.25	mg/kg		8260B	02/28/15	5
Chloroform	U	0.0011	0.025	mg/kg		8260B	02/28/15	5
Chloromethane	U	0.0019	0.013	mg/kg		8260B	02/28/15	5
2-Chlorotoluene	U	0.0015	0.0050	mg/kg		8260B	02/28/15	5
4-Chlorotoluene	U	0.0012	0.0050	mg/kg		8260B	02/28/15	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.025	mg/kg		8260B	02/28/15	5
1,2-Dibromoethane	U	0.0017	0.0050	mg/kg		8260B	02/28/15	5
Dibromomethane	U	0.0019	0.0050	mg/kg		8260B	02/28/15	5
1,2-Dichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	02/28/15	5
1,3-Dichlorobenzene	U	0.0012	0.0050	mg/kg		8260B	02/28/15	5
1,4-Dichlorobenzene	U	0.0011	0.0050	mg/kg		8260B	02/28/15	5
Dichlorodifluoromethane	U	0.0036	0.025	mg/kg		8260B	02/28/15	5
1,1-Dichloroethane	U	0.0010	0.0050	mg/kg		8260B	02/28/15	5
1,2-Dichloroethane	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
1,1-Dichloroethene	U	0.0015	0.0050	mg/kg		8260B	02/28/15	5
cis-1,2-Dichloroethene	U	0.0012	0.0050	mg/kg		8260B	02/28/15	5
trans-1,2-Dichloroethene	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
1,2-Dichloropropane	U	0.0018	0.0050	mg/kg		8260B	02/28/15	5
1,1-Dichloropropene	U	0.0016	0.0050	mg/kg		8260B	02/28/15	5
1,3-Dichloropropane	U	0.0010	0.0050	mg/kg		8260B	02/28/15	5
cis-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
trans-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
2,2-Dichloropropane	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
Di-isopropyl ether	U	0.0012	0.0050	mg/kg		8260B	02/28/15	5
Ethylbenzene	U	0.0015	0.0050	mg/kg		8260B	02/28/15	5
Hexachloro-1,3-butadiene	U	0.0017	0.0050	mg/kg		8260B	02/28/15	5
Isopropylbenzene	U	0.0012	0.0050	mg/kg		8260B	02/28/15	5
p-Isopropyltoluene	U	0.0010	0.0050	mg/kg		8260B	02/28/15	5

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 02, 2015

ESC Sample # : L749844-03

Date Received : February 21, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW16-022015

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 02/19/15 08:20

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Butanone (MEK)	U	0.023	0.050	mg/kg		8260B	02/28/15	5
Methylene Chloride	U	0.0050	0.025	mg/kg		8260B	02/28/15	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.050	mg/kg		8260B	02/28/15	5
Methyl tert-butyl ether	U	0.0011	0.0050	mg/kg		8260B	02/28/15	5
Naphthalene	0.0058	0.0050	0.025	mg/kg	J	8260B	03/02/15	5
n-Propylbenzene	U	0.0010	0.0050	mg/kg		8260B	02/28/15	5
Styrene	U	0.0012	0.0050	mg/kg		8260B	02/28/15	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0050	mg/kg		8260B	02/28/15	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0050	mg/kg		8260B	02/28/15	5
Tetrachloroethene	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
Toluene	U	0.0022	0.025	mg/kg		8260B	02/28/15	5
1,2,3-Trichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	02/28/15	5
1,2,4-Trichlorobenzene	U	0.0019	0.0050	mg/kg		8260B	02/28/15	5
1,1,1-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
1,1,2-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
Trichloroethene	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
Trichlorofluoromethane	U	0.0019	0.025	mg/kg		8260B	02/28/15	5
1,2,3-Trichloropropane	U	0.0037	0.013	mg/kg		8260B	02/28/15	5
1,2,4-Trimethylbenzene	0.0038	0.0010	0.0050	mg/kg	J	8260B	02/28/15	5
1,2,3-Trimethylbenzene	0.0027	0.0014	0.0050	mg/kg	J	8260B	02/28/15	5
Vinyl chloride	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
1,3,5-Trimethylbenzene	0.0017	0.0013	0.0050	mg/kg	J	8260B	02/28/15	5
Xylenes, Total	U	0.0035	0.015	mg/kg		8260B	02/28/15	5
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	02/28/15	1
Dibromofluoromethane	104.			% Rec.		8260B	02/28/15	1
4-Bromofluorobenzene	98.4			% Rec.		8260B	02/28/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.45	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
Acenaphthene	0.078	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
Acenaphthylene	0.17	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
Benzo(a)anthracene	0.72	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
Benzo(a)pyrene	1.2	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
Benzo(b)fluoranthene	0.95	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
Benzo(g,h,i)perylene	0.98	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
Benzo(k)fluoranthene	0.27	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
Chrysene	0.65	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
Dibenz(a,h)anthracene	0.16	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
Fluoranthene	0.95	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
Fluorene	0.16	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
Indeno(1,2,3-cd)pyrene	0.56	0.0012	0.012	mg/kg		8270C-S	02/25/15	2

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 02, 2015

ESC Sample # : L749844-03

Date Received : February 21, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW16-022015

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 02/19/15 08:20

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Naphthalene	0.21	0.0040	0.040	mg/kg		8270C-S	02/25/15	2
Phenanthrene	0.49	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
Pyrene	1.6	0.0012	0.012	mg/kg		8270C-S	02/25/15	2
1-Methylnaphthalene	0.19	0.0040	0.040	mg/kg		8270C-S	02/25/15	2
2-Methylnaphthalene	0.31	0.0040	0.040	mg/kg		8270C-S	02/25/15	2
2-Chloronaphthalene	U	0.0040	0.040	mg/kg		8270C-S	02/25/15	2
Surrogate Recovery								
p-Terphenyl-d14	75.9			% Rec.		8270C-S	02/25/15	2
Nitrobenzene-d5	51.2			% Rec.		8270C-S	02/25/15	2
2-Fluorobiphenyl	77.9			% Rec.		8270C-S	02/25/15	2

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 02, 2015

ESC Sample # : L749844-04

Date Received : February 21, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-FIELDDUP-022015

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 02/19/15 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/kg		8260B	02/28/15	5
Acrylonitrile	U	0.0090	0.050	mg/kg		8260B	02/28/15	5
Benzene	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
Bromobenzene	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
Bromodichloromethane	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
Bromoform	U	0.0021	0.0050	mg/kg		8260B	02/28/15	5
Bromomethane	U	0.0067	0.025	mg/kg		8260B	02/28/15	5
n-Butylbenzene	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
sec-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	02/28/15	5
tert-Butylbenzene	U	0.0010	0.0050	mg/kg		8260B	02/28/15	5
Carbon tetrachloride	U	0.0016	0.0050	mg/kg		8260B	02/28/15	5
Chlorobenzene	U	0.0011	0.0050	mg/kg		8260B	02/28/15	5
Chlorodibromomethane	U	0.0019	0.0050	mg/kg		8260B	02/28/15	5
Chloroethane	U	0.0047	0.025	mg/kg		8260B	02/28/15	5
2-Chloroethyl vinyl ether	U	0.012	0.25	mg/kg		8260B	02/28/15	5
Chloroform	U	0.0011	0.025	mg/kg		8260B	02/28/15	5
Chloromethane	U	0.0019	0.013	mg/kg		8260B	02/28/15	5
2-Chlorotoluene	U	0.0015	0.0050	mg/kg		8260B	02/28/15	5
4-Chlorotoluene	U	0.0012	0.0050	mg/kg		8260B	02/28/15	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.025	mg/kg		8260B	02/28/15	5
1,2-Dibromoethane	U	0.0017	0.0050	mg/kg		8260B	02/28/15	5
Dibromomethane	U	0.0019	0.0050	mg/kg		8260B	02/28/15	5
1,2-Dichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	02/28/15	5
1,3-Dichlorobenzene	U	0.0012	0.0050	mg/kg		8260B	02/28/15	5
1,4-Dichlorobenzene	U	0.0011	0.0050	mg/kg		8260B	02/28/15	5
Dichlorodifluoromethane	U	0.0036	0.025	mg/kg		8260B	02/28/15	5
1,1-Dichloroethane	U	0.0010	0.0050	mg/kg		8260B	02/28/15	5
1,2-Dichloroethane	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
1,1-Dichloroethene	U	0.0015	0.0050	mg/kg		8260B	02/28/15	5
cis-1,2-Dichloroethene	U	0.0012	0.0050	mg/kg		8260B	02/28/15	5
trans-1,2-Dichloroethene	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
1,2-Dichloropropane	U	0.0018	0.0050	mg/kg		8260B	02/28/15	5
1,1-Dichloropropene	U	0.0016	0.0050	mg/kg		8260B	02/28/15	5
1,3-Dichloropropane	U	0.0010	0.0050	mg/kg		8260B	02/28/15	5
cis-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
trans-1,3-Dichloropropene	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
2,2-Dichloropropane	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
Di-isopropyl ether	U	0.0012	0.0050	mg/kg		8260B	02/28/15	5
Ethylbenzene	U	0.0015	0.0050	mg/kg		8260B	02/28/15	5
Hexachloro-1,3-butadiene	U	0.0017	0.0050	mg/kg		8260B	02/28/15	5
Isopropylbenzene	U	0.0012	0.0050	mg/kg		8260B	02/28/15	5
p-Isopropyltoluene	U	0.0010	0.0050	mg/kg		8260B	02/28/15	5

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 02, 2015

ESC Sample # : L749844-04

Date Received : February 21, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-FIELDDUP-022015

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 02/19/15 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Butanone (MEK)	U	0.023	0.050	mg/kg		8260B	02/28/15	5
Methylene Chloride	U	0.0050	0.025	mg/kg		8260B	02/28/15	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.050	mg/kg		8260B	02/28/15	5
Methyl tert-butyl ether	U	0.0011	0.0050	mg/kg		8260B	02/28/15	5
Naphthalene	U	0.0050	0.025	mg/kg		8260B	03/02/15	5
n-Propylbenzene	U	0.0010	0.0050	mg/kg		8260B	02/28/15	5
Styrene	U	0.0012	0.0050	mg/kg		8260B	02/28/15	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0050	mg/kg		8260B	02/28/15	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0050	mg/kg		8260B	02/28/15	5
Tetrachloroethene	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
Toluene	U	0.0022	0.025	mg/kg		8260B	02/28/15	5
1,2,3-Trichlorobenzene	U	0.0015	0.0050	mg/kg		8260B	02/28/15	5
1,2,4-Trichlorobenzene	U	0.0019	0.0050	mg/kg		8260B	02/28/15	5
1,1,1-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
1,1,2-Trichloroethane	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
Trichloroethene	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
Trichlorofluoromethane	U	0.0019	0.025	mg/kg		8260B	02/28/15	5
1,2,3-Trichloropropane	U	0.0037	0.013	mg/kg		8260B	02/28/15	5
1,2,4-Trimethylbenzene	U	0.0010	0.0050	mg/kg		8260B	02/28/15	5
1,2,3-Trimethylbenzene	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
Vinyl chloride	U	0.0014	0.0050	mg/kg		8260B	02/28/15	5
1,3,5-Trimethylbenzene	U	0.0013	0.0050	mg/kg		8260B	02/28/15	5
Xylenes, Total	U	0.0035	0.015	mg/kg		8260B	02/28/15	5
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	02/28/15	1
Dibromofluoromethane	107.			% Rec.		8260B	02/28/15	1
4-Bromofluorobenzene	97.4			% Rec.		8260B	02/28/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.78	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Acenaphthene	0.20	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Acenaphthylene	0.21	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Benzo(a)anthracene	0.65	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Benzo(a)pyrene	1.6	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Benzo(b)fluoranthene	1.2	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Benzo(g,h,i)perylene	1.7	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Benzo(k)fluoranthene	0.23	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Chrysene	0.67	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Dibenz(a,h)anthracene	0.25	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Fluoranthene	0.77	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Fluorene	0.30	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Indeno(1,2,3-cd)pyrene	0.93	0.0030	0.030	mg/kg		8270C-S	02/25/15	5

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 02, 2015

ESC Sample # : L749844-04

Date Received : February 21, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-FIELDDUP-022015

Project # : 5047-RC-C100

Collected By : Andrew Stone
Collection Date : 02/19/15 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Naphthalene	0.48	0.010	0.10	mg/kg		8270C-S	02/25/15	5
Phenanthrene	0.56	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
Pyrene	1.7	0.0030	0.030	mg/kg		8270C-S	02/25/15	5
1-Methylnaphthalene	0.35	0.010	0.10	mg/kg		8270C-S	02/25/15	5
2-Methylnaphthalene	0.51	0.010	0.10	mg/kg		8270C-S	02/25/15	5
2-Chloronaphthalene	U	0.010	0.10	mg/kg		8270C-S	02/25/15	5
Surrogate Recovery								
p-Terphenyl-d14	72.2			% Rec.		8270C-S	02/25/15	5
Nitrobenzene-d5	33.5			% Rec.		8270C-S	02/25/15	5
2-Fluorobiphenyl	74.3			% Rec.		8270C-S	02/25/15	5

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L749844-01	WG771598	SAMP	Benzo(a)anthracene	R3021615	J
	WG771598	SAMP	Benzo(a)pyrene	R3021615	J
	WG771598	SAMP	Benzo(b)fluoranthene	R3021615	J
	WG771598	SAMP	Chrysene	R3021615	J
	WG771598	SAMP	Fluoranthene	R3021615	J
	WG771598	SAMP	Fluorene	R3021615	J
	WG771598	SAMP	Indeno(1,2,3-cd)pyrene	R3021615	J
	WG771598	SAMP	Naphthalene	R3021615	J
	WG771598	SAMP	Phenanthrene	R3021615	J
	WG771598	SAMP	Pyrene	R3021615	J
	WG771598	SAMP	2-Methylnaphthalene	R3021615	J
	WG771598	SAMP	Nitrobenzene-d5	R3021615	J2
	WG772134	SAMP	Chloroethane	R3022172	J4
	WG772134	SAMP	2-Chloroethyl vinyl ether	R3022172	J4
L749844-02	WG771598	SAMP	2-Chloronaphthalene	R3021615	J
	WG772480	SAMP	tert-Butylbenzene	R3022293	J
L749844-03	WG773130	SAMP	Naphthalene	R3022512	J
	WG772480	SAMP	1,2,4-Trimethylbenzene	R3022293	J
	WG772480	SAMP	1,2,3-Trimethylbenzene	R3022293	J
	WG772480	SAMP	1,3,5-Trimethylbenzene	R3022293	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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Golden, CO 80401

Quality Assurance Report
Level II

L749844

March 02, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1-Methylnaphthalene	< .02	mg/kg			WG771598	02/25/15 01:01
2-Chloronaphthalene	< .02	mg/kg			WG771598	02/25/15 01:01
2-Methylnaphthalene	< .02	mg/kg			WG771598	02/25/15 01:01
Acenaphthene	< .006	mg/kg			WG771598	02/25/15 01:01
Acenaphthylene	< .006	mg/kg			WG771598	02/25/15 01:01
Anthracene	< .006	mg/kg			WG771598	02/25/15 01:01
Benzo(a)anthracene	< .006	mg/kg			WG771598	02/25/15 01:01
Benzo(a)pyrene	< .006	mg/kg			WG771598	02/25/15 01:01
Benzo(b)fluoranthene	< .006	mg/kg			WG771598	02/25/15 01:01
Benzo(g,h,i)perylene	< .006	mg/kg			WG771598	02/25/15 01:01
Benzo(k)fluoranthene	< .006	mg/kg			WG771598	02/25/15 01:01
Chrysene	< .006	mg/kg			WG771598	02/25/15 01:01
Dibenz(a,h)anthracene	< .006	mg/kg			WG771598	02/25/15 01:01
Fluoranthene	< .006	mg/kg			WG771598	02/25/15 01:01
Fluorene	< .006	mg/kg			WG771598	02/25/15 01:01
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG771598	02/25/15 01:01
Naphthalene	< .02	mg/kg			WG771598	02/25/15 01:01
Phenanthrene	< .006	mg/kg			WG771598	02/25/15 01:01
Pyrene	< .006	mg/kg			WG771598	02/25/15 01:01
2-Fluorobiphenyl		% Rec.	90.10	38.2-135	WG771598	02/25/15 01:01
Nitrobenzene-d5		% Rec.	91.70	28.4-151	WG771598	02/25/15 01:01
p-Terphenyl-d14		% Rec.	93.50	34.2-141	WG771598	02/25/15 01:01
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG772134	02/27/15 11:58
1,1,1-Trichloroethane	< .001	mg/kg			WG772134	02/27/15 11:58
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG772134	02/27/15 11:58
1,1,2-Trichloroethane	< .001	mg/kg			WG772134	02/27/15 11:58
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG772134	02/27/15 11:58
1,1-Dichloroethane	< .001	mg/kg			WG772134	02/27/15 11:58
1,1-Dichloroethene	< .001	mg/kg			WG772134	02/27/15 11:58
1,1-Dichloropropene	< .001	mg/kg			WG772134	02/27/15 11:58
1,2,3-Trichlorobenzene	< .001	mg/kg			WG772134	02/27/15 11:58
1,2,3-Trichloropropane	< .0025	mg/kg			WG772134	02/27/15 11:58
1,2,3-Trimethylbenzene	< .001	mg/kg			WG772134	02/27/15 11:58
1,2,4-Trichlorobenzene	< .001	mg/kg			WG772134	02/27/15 11:58
1,2,4-Trimethylbenzene	< .001	mg/kg			WG772134	02/27/15 11:58
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG772134	02/27/15 11:58
1,2-Dibromoethane	< .001	mg/kg			WG772134	02/27/15 11:58
1,2-Dichlorobenzene	< .001	mg/kg			WG772134	02/27/15 11:58
1,2-Dichloroethane	< .001	mg/kg			WG772134	02/27/15 11:58
1,2-Dichloropropane	< .001	mg/kg			WG772134	02/27/15 11:58
1,3,5-Trimethylbenzene	< .001	mg/kg			WG772134	02/27/15 11:58
1,3-Dichlorobenzene	< .001	mg/kg			WG772134	02/27/15 11:58
1,3-Dichloropropane	< .001	mg/kg			WG772134	02/27/15 11:58
1,4-Dichlorobenzene	< .001	mg/kg			WG772134	02/27/15 11:58
2,2-Dichloropropane	< .001	mg/kg			WG772134	02/27/15 11:58
2-Butanone (MEK)	< .01	mg/kg			WG772134	02/27/15 11:58
2-Chloroethyl vinyl ether	< .05	mg/kg			WG772134	02/27/15 11:58
2-Chlorotoluene	< .001	mg/kg			WG772134	02/27/15 11:58
4-Chlorotoluene	< .001	mg/kg			WG772134	02/27/15 11:58
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG772134	02/27/15 11:58
Acetone	< .05	mg/kg			WG772134	02/27/15 11:58
Acrylonitrile	< .01	mg/kg			WG772134	02/27/15 11:58
Benzene	< .001	mg/kg			WG772134	02/27/15 11:58
Bromobenzene	< .001	mg/kg			WG772134	02/27/15 11:58
Bromodichloromethane	< .001	mg/kg			WG772134	02/27/15 11:58
Bromoform	< .001	mg/kg			WG772134	02/27/15 11:58
Bromomethane	< .005	mg/kg			WG772134	02/27/15 11:58

* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L749844

March 02, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Carbon tetrachloride	< .001	mg/kg			WG772134	02/27/15 11:58
Chlorobenzene	< .001	mg/kg			WG772134	02/27/15 11:58
Chlorodibromomethane	< .001	mg/kg			WG772134	02/27/15 11:58
Chloroethane	< .005	mg/kg			WG772134	02/27/15 11:58
Chloroform	< .005	mg/kg			WG772134	02/27/15 11:58
Chloromethane	< .0025	mg/kg			WG772134	02/27/15 11:58
cis-1,2-Dichloroethene	< .001	mg/kg			WG772134	02/27/15 11:58
cis-1,3-Dichloropropene	< .001	mg/kg			WG772134	02/27/15 11:58
Di-isopropyl ether	< .001	mg/kg			WG772134	02/27/15 11:58
Dibromomethane	< .001	mg/kg			WG772134	02/27/15 11:58
Dichlorodifluoromethane	< .005	mg/kg			WG772134	02/27/15 11:58
Ethylbenzene	< .001	mg/kg			WG772134	02/27/15 11:58
Hexachloro-1,3-butadiene	< .001	mg/kg			WG772134	02/27/15 11:58
Isopropylbenzene	< .001	mg/kg			WG772134	02/27/15 11:58
Methyl tert-butyl ether	< .001	mg/kg			WG772134	02/27/15 11:58
Methylene Chloride	< .005	mg/kg			WG772134	02/27/15 11:58
n-Butylbenzene	< .001	mg/kg			WG772134	02/27/15 11:58
n-Propylbenzene	< .001	mg/kg			WG772134	02/27/15 11:58
Naphthalene	< .005	mg/kg			WG772134	02/27/15 11:58
p-Isopropyltoluene	< .001	mg/kg			WG772134	02/27/15 11:58
sec-Butylbenzene	< .001	mg/kg			WG772134	02/27/15 11:58
Styrene	< .001	mg/kg			WG772134	02/27/15 11:58
tert-Butylbenzene	< .001	mg/kg			WG772134	02/27/15 11:58
Tetrachloroethene	< .001	mg/kg			WG772134	02/27/15 11:58
Toluene	< .005	mg/kg			WG772134	02/27/15 11:58
trans-1,2-Dichloroethene	< .001	mg/kg			WG772134	02/27/15 11:58
trans-1,3-Dichloropropene	< .001	mg/kg			WG772134	02/27/15 11:58
Trichloroethene	< .001	mg/kg			WG772134	02/27/15 11:58
Trichlorofluoromethane	< .005	mg/kg			WG772134	02/27/15 11:58
Vinyl chloride	< .001	mg/kg			WG772134	02/27/15 11:58
Xylenes, Total	< .003	mg/kg			WG772134	02/27/15 11:58
4-Bromofluorobenzene		% Rec.	92.60	71-126	WG772134	02/27/15 11:58
Dibromofluoromethane		% Rec.	106.0	78.3-121	WG772134	02/27/15 11:58
Toluene-d8		% Rec.	103.0	88.5-111	WG772134	02/27/15 11:58
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG772480	02/27/15 23:19
1,1,1-Trichloroethane	< .001	mg/kg			WG772480	02/27/15 23:19
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG772480	02/27/15 23:19
1,1,2-Trichloroethane	< .001	mg/kg			WG772480	02/27/15 23:19
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG772480	02/27/15 23:19
1,1-Dichloroethane	< .001	mg/kg			WG772480	02/27/15 23:19
1,1-Dichloroethene	< .001	mg/kg			WG772480	02/27/15 23:19
1,1-Dichloropropene	< .001	mg/kg			WG772480	02/27/15 23:19
1,2,3-Trichlorobenzene	< .001	mg/kg			WG772480	02/27/15 23:19
1,2,3-Trichloropropane	< .0025	mg/kg			WG772480	02/27/15 23:19
1,2,3-Trimethylbenzene	< .001	mg/kg			WG772480	02/27/15 23:19
1,2,4-Trichlorobenzene	< .001	mg/kg			WG772480	02/27/15 23:19
1,2,4-Trimethylbenzene	< .001	mg/kg			WG772480	02/27/15 23:19
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG772480	02/27/15 23:19
1,2-Dibromoethane	< .001	mg/kg			WG772480	02/27/15 23:19
1,2-Dichlorobenzene	< .001	mg/kg			WG772480	02/27/15 23:19
1,2-Dichloroethane	< .001	mg/kg			WG772480	02/27/15 23:19
1,2-Dichloropropane	< .001	mg/kg			WG772480	02/27/15 23:19
1,3,5-Trimethylbenzene	< .001	mg/kg			WG772480	02/27/15 23:19
1,3-Dichlorobenzene	< .001	mg/kg			WG772480	02/27/15 23:19
1,3-Dichloropropane	< .001	mg/kg			WG772480	02/27/15 23:19
1,4-Dichlorobenzene	< .001	mg/kg			WG772480	02/27/15 23:19
2,2-Dichloropropane	< .001	mg/kg			WG772480	02/27/15 23:19

* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L749844

March 02, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
2-Butanone (MEK)	< .01	mg/kg			WG772480	02/27/15 23:19
2-Chloroethyl vinyl ether	< .05	mg/kg			WG772480	02/27/15 23:19
2-Chlorotoluene	< .001	mg/kg			WG772480	02/27/15 23:19
4-Chlorotoluene	< .001	mg/kg			WG772480	02/27/15 23:19
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG772480	02/27/15 23:19
Acetone	< .05	mg/kg			WG772480	02/27/15 23:19
Acrylonitrile	< .01	mg/kg			WG772480	02/27/15 23:19
Benzene	< .001	mg/kg			WG772480	02/27/15 23:19
Bromobenzene	< .001	mg/kg			WG772480	02/27/15 23:19
Bromodichloromethane	< .001	mg/kg			WG772480	02/27/15 23:19
Bromoform	< .001	mg/kg			WG772480	02/27/15 23:19
Bromomethane	< .005	mg/kg			WG772480	02/27/15 23:19
Carbon tetrachloride	< .001	mg/kg			WG772480	02/27/15 23:19
Chlorobenzene	< .001	mg/kg			WG772480	02/27/15 23:19
Chlorodibromomethane	< .001	mg/kg			WG772480	02/27/15 23:19
Chloroethane	< .005	mg/kg			WG772480	02/27/15 23:19
Chloroform	< .005	mg/kg			WG772480	02/27/15 23:19
Chloromethane	< .0025	mg/kg			WG772480	02/27/15 23:19
cis-1,2-Dichloroethene	< .001	mg/kg			WG772480	02/27/15 23:19
cis-1,3-Dichloropropene	< .001	mg/kg			WG772480	02/27/15 23:19
Di-isopropyl ether	< .001	mg/kg			WG772480	02/27/15 23:19
Dibromomethane	< .001	mg/kg			WG772480	02/27/15 23:19
Dichlorodifluoromethane	< .005	mg/kg			WG772480	02/27/15 23:19
Ethylbenzene	< .001	mg/kg			WG772480	02/27/15 23:19
Hexachloro-1,3-butadiene	< .001	mg/kg			WG772480	02/27/15 23:19
Isopropylbenzene	< .001	mg/kg			WG772480	02/27/15 23:19
Methyl tert-butyl ether	< .001	mg/kg			WG772480	02/27/15 23:19
Methylene Chloride	< .005	mg/kg			WG772480	02/27/15 23:19
n-Butylbenzene	< .001	mg/kg			WG772480	02/27/15 23:19
n-Propylbenzene	< .001	mg/kg			WG772480	02/27/15 23:19
p-Isopropyltoluene	< .001	mg/kg			WG772480	02/27/15 23:19
sec-Butylbenzene	< .001	mg/kg			WG772480	02/27/15 23:19
Styrene	< .001	mg/kg			WG772480	02/27/15 23:19
tert-Butylbenzene	< .001	mg/kg			WG772480	02/27/15 23:19
Tetrachloroethene	< .001	mg/kg			WG772480	02/27/15 23:19
Toluene	< .005	mg/kg			WG772480	02/27/15 23:19
trans-1,2-Dichloroethene	< .001	mg/kg			WG772480	02/27/15 23:19
trans-1,3-Dichloropropene	< .001	mg/kg			WG772480	02/27/15 23:19
Trichloroethene	< .001	mg/kg			WG772480	02/27/15 23:19
Trichlorofluoromethane	< .005	mg/kg			WG772480	02/27/15 23:19
Vinyl chloride	< .001	mg/kg			WG772480	02/27/15 23:19
Xylenes, Total	< .003	mg/kg			WG772480	02/27/15 23:19
4-Bromofluorobenzene		% Rec.	100.0	71-126	WG772480	02/27/15 23:19
Dibromofluoromethane		% Rec.	104.0	78.3-121	WG772480	02/27/15 23:19
Toluene-d8		% Rec.	104.0	88.5-111	WG772480	02/27/15 23:19
Naphthalene	< .005	mg/kg			WG773130	03/02/15 11:51
4-Bromofluorobenzene		% Rec.	96.20	71-126	WG773130	03/02/15 11:51
Dibromofluoromethane		% Rec.	95.60	78.3-121	WG773130	03/02/15 11:51
Toluene-d8		% Rec.	97.70	88.5-111	WG773130	03/02/15 11:51

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1-Methylnaphthalene	mg/kg	.08	0.0753	94.1	48.9-127	WG771598
2-Chloronaphthalene	mg/kg	.08	0.0660	82.5	48.8-125	WG771598
2-Methylnaphthalene	mg/kg	.08	0.0717	89.6	45.7-131	WG771598
Acenaphthene	mg/kg	.08	0.0726	90.7	48.7-127	WG771598

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March 02, 2015

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Acenaphthylene	mg/kg	.08	0.0709	88.6	47.9-128	WG771598
Anthracene	mg/kg	.08	0.0629	78.6	51.3-136	WG771598
Benzo(a)anthracene	mg/kg	.08	0.0648	81.0	55-126	WG771598
Benzo(a)pyrene	mg/kg	.08	0.0505	63.1	51.9-127	WG771598
Benzo(b)fluoranthene	mg/kg	.08	0.0728	91.0	54-125	WG771598
Benzo(g,h,i)perylene	mg/kg	.08	0.0649	81.1	53.8-136	WG771598
Benzo(k)fluoranthene	mg/kg	.08	0.0689	86.1	53.9-132	WG771598
Chrysene	mg/kg	.08	0.0676	84.4	55.7-133	WG771598
Dibenz(a,h)anthracene	mg/kg	.08	0.0719	89.9	52.6-137	WG771598
Fluoranthene	mg/kg	.08	0.0724	90.5	54-132	WG771598
Fluorene	mg/kg	.08	0.0683	85.4	48.7-127	WG771598
Indeno(1,2,3-cd)pyrene	mg/kg	.08	0.0709	88.6	53.8-138	WG771598
Naphthalene	mg/kg	.08	0.0697	87.1	42-127	WG771598
Phenanthrene	mg/kg	.08	0.0640	80.0	49.6-126	WG771598
Pyrene	mg/kg	.08	0.0778	97.3	54-129	WG771598
2-Fluorobiphenyl				91.20	38.2-135	WG771598
Nitrobenzene-d5				97.60	28.4-151	WG771598
p-Terphenyl-d14				95.10	34.2-141	WG771598
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0234	93.7	72.9-124	WG772134
1,1,1-Trichloroethane	mg/kg	.025	0.0230	92.2	73.7-124	WG772134
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0249	99.4	69.4-122	WG772134
1,1,2-Trichloroethane	mg/kg	.025	0.0219	87.8	79.1-118	WG772134
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0241	96.5	70-146	WG772134
1,1-Dichloroethane	mg/kg	.025	0.0238	95.3	75-124	WG772134
1,1-Dichloroethene	mg/kg	.025	0.0234	93.5	70.4-129	WG772134
1,1-Dichloropropene	mg/kg	.025	0.0225	90.1	74.9-124	WG772134
1,2,3-Trichlorobenzene	mg/kg	.025	0.0242	96.9	69.3-131	WG772134
1,2,3-Trichloropropane	mg/kg	.025	0.0213	85.2	71.4-123	WG772134
1,2,3-Trimethylbenzene	mg/kg	.025	0.0225	89.9	73.6-113	WG772134
1,2,4-Trichlorobenzene	mg/kg	.025	0.0251	101.	71.9-137	WG772134
1,2,4-Trimethylbenzene	mg/kg	.025	0.0205	81.8	75.5-122	WG772134
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0217	86.6	62.8-133	WG772134
1,2-Dibromoethane	mg/kg	.025	0.0221	88.4	78.6-120	WG772134
1,2-Dichlorobenzene	mg/kg	.025	0.0227	90.9	78.3-118	WG772134
1,2-Dichloroethane	mg/kg	.025	0.0208	83.3	70.1-124	WG772134
1,2-Dichloropropane	mg/kg	.025	0.0249	99.6	77.9-119	WG772134
1,3,5-Trimethylbenzene	mg/kg	.025	0.0213	85.0	75.9-124	WG772134
1,3-Dichlorobenzene	mg/kg	.025	0.0217	86.7	72-126	WG772134
1,3-Dichloropropane	mg/kg	.025	0.0210	84.0	79.1-117	WG772134
1,4-Dichlorobenzene	mg/kg	.025	0.0227	90.9	78.3-117	WG772134
2,2-Dichloropropane	mg/kg	.025	0.0229	91.7	61.3-136	WG772134
2-Butanone (MEK)	mg/kg	.125	0.124	99.1	53.7-153	WG772134
2-Chloroethyl vinyl ether	mg/kg	.125	0.0424	33.9*	37.7-157	WG772134
2-Chlorotoluene	mg/kg	.025	0.0207	82.7	75.6-121	WG772134
4-Chlorotoluene	mg/kg	.025	0.0212	84.8	77.3-120	WG772134
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.128	102.	70.4-137	WG772134
Acetone	mg/kg	.125	0.109	87.2	35.1-175	WG772134
Acrylonitrile	mg/kg	.125	0.124	99.5	56.4-128	WG772134
Benzene	mg/kg	.025	0.0210	84.1	77.1-121	WG772134
Bromobenzene	mg/kg	.025	0.0217	86.6	78.2-115	WG772134
Bromodichloromethane	mg/kg	.025	0.0238	95.1	74.9-115	WG772134
Bromoform	mg/kg	.025	0.0235	94.1	65.9-132	WG772134
Bromomethane	mg/kg	.025	0.0318	127.	48.7-165	WG772134
Carbon tetrachloride	mg/kg	.025	0.0264	105.	70-124	WG772134
Chlorobenzene	mg/kg	.025	0.0217	86.7	79.1-119	WG772134
Chlorodibromomethane	mg/kg	.025	0.0230	92.0	73.5-121	WG772134
Chloroethane	mg/kg	.025	0.0376	150.*	66.2-132	WG772134

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Golden, CO 80401

Quality Assurance Report
Level II

L749844

March 02, 2015

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Chloroform	mg/kg	.025	0.0219	87.7	76.7-122	WG772134
Chloromethane	mg/kg	.025	0.0252	101.	63.4-131	WG772134
cis-1,2-Dichloroethene	mg/kg	.025	0.0225	90.0	78.2-119	WG772134
cis-1,3-Dichloropropene	mg/kg	.025	0.0233	93.0	79.6-120	WG772134
Di-isopropyl ether	mg/kg	.025	0.0261	105.	70.4-133	WG772134
Dibromomethane	mg/kg	.025	0.0228	91.3	79.4-120	WG772134
Dichlorodifluoromethane	mg/kg	.025	0.0224	89.5	57.1-137	WG772134
Ethylbenzene	mg/kg	.025	0.0215	85.8	79.7-122	WG772134
Hexachloro-1,3-butadiene	mg/kg	.025	0.0252	101.	68.2-123	WG772134
Isopropylbenzene	mg/kg	.025	0.0214	85.5	80-135	WG772134
Methyl tert-butyl ether	mg/kg	.025	0.0219	87.7	73-129	WG772134
Methylene Chloride	mg/kg	.025	0.0214	85.5	72.6-120	WG772134
n-Butylbenzene	mg/kg	.025	0.0248	99.4	77.5-126	WG772134
n-Propylbenzene	mg/kg	.025	0.0217	87.0	77.9-123	WG772134
Naphthalene	mg/kg	.025	0.0217	86.7	69.8-128	WG772134
p-Isopropyltoluene	mg/kg	.025	0.0217	86.6	75.8-129	WG772134
sec-Butylbenzene	mg/kg	.025	0.0215	86.0	75.8-126	WG772134
Styrene	mg/kg	.025	0.0213	85.3	82.4-126	WG772134
tert-Butylbenzene	mg/kg	.025	0.0216	86.4	76.4-126	WG772134
Tetrachloroethene	mg/kg	.025	0.0222	88.6	73.9-125	WG772134
Toluene	mg/kg	.025	0.0218	87.1	79.7-118	WG772134
trans-1,2-Dichloroethene	mg/kg	.025	0.0225	89.9	73.8-122	WG772134
trans-1,3-Dichloropropene	mg/kg	.025	0.0235	93.9	75.9-124	WG772134
Trichloroethene	mg/kg	.025	0.0213	85.3	77.9-118	WG772134
Trichlorofluoromethane	mg/kg	.025	0.0257	103.	67.7-131	WG772134
Vinyl chloride	mg/kg	.025	0.0258	103.	66.7-130	WG772134
Xylenes, Total	mg/kg	.075	0.0630	84.1	78.8-121	WG772134
4-Bromofluorobenzene				93.70	71-126	WG772134
Dibromofluoromethane				106.0	78.3-121	WG772134
Toluene-d8				104.0	88.5-111	WG772134
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0235	93.8	72.9-124	WG772480
1,1,1-Trichloroethane	mg/kg	.025	0.0267	107.	73.7-124	WG772480
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0245	97.9	69.4-122	WG772480
1,1,2-Trichloroethane	mg/kg	.025	0.0233	93.2	79.1-118	WG772480
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0312	125.	70-146	WG772480
1,1-Dichloroethane	mg/kg	.025	0.0256	102.	75-124	WG772480
1,1-Dichloroethene	mg/kg	.025	0.0304	121.	70.4-129	WG772480
1,1-Dichloropropene	mg/kg	.025	0.0258	103.	74.9-124	WG772480
1,2,3-Trichlorobenzene	mg/kg	.025	0.0229	91.5	69.3-131	WG772480
1,2,3-Trichloropropane	mg/kg	.025	0.0234	93.4	71.4-123	WG772480
1,2,3-Trimethylbenzene	mg/kg	.025	0.0252	101.	73.6-113	WG772480
1,2,4-Trichlorobenzene	mg/kg	.025	0.0238	95.1	71.9-137	WG772480
1,2,4-Trimethylbenzene	mg/kg	.025	0.0243	97.3	75.5-122	WG772480
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0231	92.5	62.8-133	WG772480
1,2-Dibromoethane	mg/kg	.025	0.0234	93.5	78.6-120	WG772480
1,2-Dichlorobenzene	mg/kg	.025	0.0236	94.5	78.3-118	WG772480
1,2-Dichloroethane	mg/kg	.025	0.0248	99.2	70.1-124	WG772480
1,2-Dichloropropane	mg/kg	.025	0.0255	102.	77.9-119	WG772480
1,3,5-Trimethylbenzene	mg/kg	.025	0.0251	100.	75.9-124	WG772480
1,3-Dichlorobenzene	mg/kg	.025	0.0220	88.0	72-126	WG772480
1,3-Dichloropropane	mg/kg	.025	0.0224	89.7	79.1-117	WG772480
1,4-Dichlorobenzene	mg/kg	.025	0.0230	92.1	78.3-117	WG772480
2,2-Dichloropropane	mg/kg	.025	0.0280	112.	61.3-136	WG772480
2-Butanone (MEK)	mg/kg	.125	0.159	127.	53.7-153	WG772480
2-Chloroethyl vinyl ether	mg/kg	.125	0.131	105.	37.7-157	WG772480
2-Chlorotoluene	mg/kg	.025	0.0220	87.8	75.6-121	WG772480
4-Chlorotoluene	mg/kg	.025	0.0238	95.4	77.3-120	WG772480

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Quality Assurance Report
Level II

L749844

March 02, 2015

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.136	109.	70.4-137	WG772480
Acetone	mg/kg	.125	0.168	135.	35.1-175	WG772480
Acrylonitrile	mg/kg	.125	0.116	92.8	56.4-128	WG772480
Benzene	mg/kg	.025	0.0244	97.7	77.1-121	WG772480
Bromobenzene	mg/kg	.025	0.0236	94.3	78.2-115	WG772480
Bromodichloromethane	mg/kg	.025	0.0252	101.	74.9-115	WG772480
Bromoform	mg/kg	.025	0.0229	91.8	65.9-132	WG772480
Bromomethane	mg/kg	.025	0.0339	136.	48.7-165	WG772480
Carbon tetrachloride	mg/kg	.025	0.0268	107.	70-124	WG772480
Chlorobenzene	mg/kg	.025	0.0236	94.3	79.1-119	WG772480
Chlorodibromomethane	mg/kg	.025	0.0229	91.4	73.5-121	WG772480
Chloroethane	mg/kg	.025	0.0305	122.	66.2-132	WG772480
Chloroform	mg/kg	.025	0.0236	94.4	76.7-122	WG772480
Chloromethane	mg/kg	.025	0.0244	97.5	63.4-131	WG772480
cis-1,2-Dichloroethene	mg/kg	.025	0.0242	96.6	78.2-119	WG772480
cis-1,3-Dichloropropene	mg/kg	.025	0.0252	101.	79.6-120	WG772480
Di-isopropyl ether	mg/kg	.025	0.0260	104.	70.4-133	WG772480
Dibromomethane	mg/kg	.025	0.0247	98.9	79.4-120	WG772480
Dichlorodifluoromethane	mg/kg	.025	0.0248	99.2	57.1-137	WG772480
Ethylbenzene	mg/kg	.025	0.0244	97.7	79.7-122	WG772480
Hexachloro-1,3-butadiene	mg/kg	.025	0.0241	96.5	68.2-123	WG772480
Isopropylbenzene	mg/kg	.025	0.0253	101.	80-135	WG772480
Methyl tert-butyl ether	mg/kg	.025	0.0231	92.6	73-129	WG772480
Methylene Chloride	mg/kg	.025	0.0221	88.3	72.6-120	WG772480
n-Butylbenzene	mg/kg	.025	0.0269	108.	77.5-126	WG772480
n-Propylbenzene	mg/kg	.025	0.0253	101.	77.9-123	WG772480
p-Isopropyltoluene	mg/kg	.025	0.0250	100.	75.8-129	WG772480
sec-Butylbenzene	mg/kg	.025	0.0258	103.	75.8-126	WG772480
Styrene	mg/kg	.025	0.0243	97.2	82.4-126	WG772480
tert-Butylbenzene	mg/kg	.025	0.0254	102.	76.4-126	WG772480
Tetrachloroethene	mg/kg	.025	0.0245	98.0	73.9-125	WG772480
Toluene	mg/kg	.025	0.0240	96.1	79.7-118	WG772480
trans-1,2-Dichloroethene	mg/kg	.025	0.0254	102.	73.8-122	WG772480
trans-1,3-Dichloropropene	mg/kg	.025	0.0235	94.0	75.9-124	WG772480
Trichloroethene	mg/kg	.025	0.0247	98.9	77.9-118	WG772480
Trichlorofluoromethane	mg/kg	.025	0.0294	118.	67.7-131	WG772480
Vinyl chloride	mg/kg	.025	0.0261	105.	66.7-130	WG772480
Xylenes, Total	mg/kg	.075	0.0724	96.5	78.8-121	WG772480
4-Bromofluorobenzene				103.0	71-126	WG772480
Dibromofluoromethane				106.0	78.3-121	WG772480
Toluene-d8				105.0	88.5-111	WG772480
Naphthalene	mg/kg	.025	0.0247	98.9	69.8-128	WG773130
4-Bromofluorobenzene				97.10	71-126	WG773130
Dibromofluoromethane				95.20	78.3-121	WG773130
Toluene-d8				101.0	88.5-111	WG773130

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1-Methylnaphthalene	mg/kg	0.0739	0.0753	92.0	48.9-127	1.88	20	WG771598
2-Chloronaphthalene	mg/kg	0.0641	0.0660	80.0	48.8-125	2.98	20	WG771598
2-Methylnaphthalene	mg/kg	0.0701	0.0717	88.0	45.7-131	2.17	20	WG771598
Acenaphthene	mg/kg	0.0705	0.0726	88.0	48.7-127	2.93	20	WG771598
Acenaphthylene	mg/kg	0.0694	0.0709	87.0	47.9-128	2.17	20	WG771598
Anthracene	mg/kg	0.0612	0.0629	76.0	51.3-136	2.78	20	WG771598
Benzo(a)anthracene	mg/kg	0.0625	0.0648	78.0	55-126	3.62	20	WG771598
Benzo(a)pyrene	mg/kg	0.0520	0.0505	65.0	51.9-127	2.93	20	WG771598

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Quality Assurance Report
Level II

L749844

March 02, 2015

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Benzo(b)fluoranthene	mg/kg	0.0693	0.0728	87.0	54-125	4.88	20	WG771598
Benzo(g,h,i)perylene	mg/kg	0.0638	0.0649	80.0	53.8-136	1.73	20	WG771598
Benzo(k)fluoranthene	mg/kg	0.0691	0.0689	86.0	53.9-132	0.360	20	WG771598
Chrysene	mg/kg	0.0666	0.0676	83.0	55.7-133	1.44	20	WG771598
Dibenz(a,h)anthracene	mg/kg	0.0704	0.0719	88.0	52.6-137	2.15	20	WG771598
Fluoranthene	mg/kg	0.0692	0.0724	86.0	54-132	4.53	20	WG771598
Fluorene	mg/kg	0.0667	0.0683	83.0	48.7-127	2.42	20	WG771598
Indeno(1,2,3-cd)pyrene	mg/kg	0.0693	0.0709	87.0	53.8-138	2.26	20	WG771598
Naphthalene	mg/kg	0.0687	0.0697	86.0	42-127	1.44	20	WG771598
Phenanthrene	mg/kg	0.0613	0.0640	77.0	49.6-126	4.34	20	WG771598
Pyrene	mg/kg	0.0750	0.0778	94.0	54-129	3.74	20	WG771598
2-Fluorobiphenyl				94.20	38.2-135			WG771598
Nitrobenzene-d5				103.0	28.4-151			WG771598
p-Terphenyl-d14				93.00	34.2-141			WG771598
1,1,1,2-Tetrachloroethane	mg/kg	0.0242	0.0234	97.0	72.9-124	3.16	20	WG772134
1,1,1-Trichloroethane	mg/kg	0.0232	0.0230	93.0	73.7-124	0.590	20	WG772134
1,1,2,2-Tetrachloroethane	mg/kg	0.0262	0.0249	105.	69.4-122	5.09	20	WG772134
1,1,2-Trichloroethane	mg/kg	0.0221	0.0219	88.0	79.1-118	0.620	20	WG772134
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0239	0.0241	96.0	70-146	0.800	20	WG772134
1,1-Dichloroethane	mg/kg	0.0240	0.0238	96.0	75-124	0.680	20	WG772134
1,1-Dichloroethene	mg/kg	0.0234	0.0234	94.0	70.4-129	0.280	20	WG772134
1,1-Dichloropropene	mg/kg	0.0231	0.0225	92.0	74.9-124	2.65	20	WG772134
1,2,3-Trichlorobenzene	mg/kg	0.0245	0.0242	98.0	69.3-131	1.02	20	WG772134
1,2,3-Trichloropropane	mg/kg	0.0227	0.0213	91.0	71.4-123	6.19	20	WG772134
1,2,3-Trimethylbenzene	mg/kg	0.0229	0.0225	91.0	73.6-113	1.73	20	WG772134
1,2,4-Trichlorobenzene	mg/kg	0.0252	0.0251	101.	71.9-137	0.240	20	WG772134
1,2,4-Trimethylbenzene	mg/kg	0.0210	0.0205	84.0	75.5-122	2.49	20	WG772134
1,2-Dibromo-3-Chloropropane	mg/kg	0.0227	0.0217	91.0	62.8-133	4.67	20	WG772134
1,2-Dibromoethane	mg/kg	0.0229	0.0221	92.0	78.6-120	3.72	20	WG772134
1,2-Dichlorobenzene	mg/kg	0.0231	0.0227	92.0	78.3-118	1.87	20	WG772134
1,2-Dichloroethane	mg/kg	0.0213	0.0208	85.0	70.1-124	2.24	20	WG772134
1,2-Dichloropropane	mg/kg	0.0251	0.0249	100.	77.9-119	0.770	20	WG772134
1,3,5-Trimethylbenzene	mg/kg	0.0216	0.0213	86.0	75.9-124	1.50	20	WG772134
1,3-Dichlorobenzene	mg/kg	0.0219	0.0217	88.0	72-126	1.03	20	WG772134
1,3-Dichloropropane	mg/kg	0.0215	0.0210	86.0	79.1-117	2.55	20	WG772134
1,4-Dichlorobenzene	mg/kg	0.0232	0.0227	93.0	78.3-117	2.00	20	WG772134
2,2-Dichloropropane	mg/kg	0.0232	0.0229	93.0	61.3-136	1.28	20	WG772134
2-Butanone (MEK)	mg/kg	0.127	0.124	102.	53.7-153	2.58	21.2	WG772134
2-Chloroethyl vinyl ether	mg/kg	0.0420	0.0424	34*	37.7-157	1.03	20	WG772134
2-Chlorotoluene	mg/kg	0.0211	0.0207	84.0	75.6-121	1.86	20	WG772134
4-Chlorotoluene	mg/kg	0.0219	0.0212	88.0	77.3-120	3.16	20	WG772134
4-Methyl-2-pentanone (MIBK)	mg/kg	0.134	0.128	107.	70.4-137	4.86	20	WG772134
Acetone	mg/kg	0.114	0.109	92.0	35.1-175	4.82	26.1	WG772134
Acrylonitrile	mg/kg	0.128	0.124	103.	56.4-128	3.22	20	WG772134
Benzene	mg/kg	0.0213	0.0210	85.0	77.1-121	1.57	20	WG772134
Bromobenzene	mg/kg	0.0225	0.0217	90.0	78.2-115	3.97	20	WG772134
Bromodichloromethane	mg/kg	0.0240	0.0238	96.0	74.9-115	0.860	20	WG772134
Bromoform	mg/kg	0.0245	0.0235	98.0	65.9-132	4.21	20	WG772134
Bromomethane	mg/kg	0.0321	0.0318	128.	48.7-165	0.940	20	WG772134
Carbon tetrachloride	mg/kg	0.0239	0.0264	96.0	70-124	9.71	20	WG772134
Chlorobenzene	mg/kg	0.0221	0.0217	88.0	79.1-119	2.00	20	WG772134
Chlorodibromomethane	mg/kg	0.0237	0.0230	95.0	73.5-121	3.03	20	WG772134
Chloroethane	mg/kg	0.0370	0.0376	148*	66.2-132	1.67	20	WG772134
Chloroform	mg/kg	0.0220	0.0219	88.0	76.7-122	0.270	20	WG772134
Chloromethane	mg/kg	0.0246	0.0252	98.0	63.4-131	2.08	20	WG772134
cis-1,2-Dichloroethene	mg/kg	0.0230	0.0225	92.0	78.2-119	2.15	20	WG772134
cis-1,3-Dichloropropene	mg/kg	0.0237	0.0233	95.0	79.6-120	1.91	20	WG772134

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L749844

March 02, 2015

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Di-isopropyl ether	mg/kg	0.0264	0.0261	106.	70.4-133	1.12	20	WG772134
Dibromomethane	mg/kg	0.0234	0.0228	94.0	79.4-120	2.48	20	WG772134
Dichlorodifluoromethane	mg/kg	0.0223	0.0224	89.0	57.1-137	0.440	20	WG772134
Ethylbenzene	mg/kg	0.0219	0.0215	88.0	79.7-122	1.95	20	WG772134
Hexachloro-1,3-butadiene	mg/kg	0.0254	0.0252	101.	68.2-123	0.490	20	WG772134
Isopropylbenzene	mg/kg	0.0222	0.0214	89.0	80-135	3.65	20	WG772134
Methyl tert-butyl ether	mg/kg	0.0224	0.0219	90.0	73-129	2.19	20	WG772134
Methylene Chloride	mg/kg	0.0210	0.0214	84.0	72.6-120	1.85	20	WG772134
n-Butylbenzene	mg/kg	0.0251	0.0248	100.	77.5-126	0.890	20	WG772134
n-Propylbenzene	mg/kg	0.0224	0.0217	90.0	77.9-123	3.03	20	WG772134
Naphthalene	mg/kg	0.0227	0.0217	91.0	69.8-128	4.79	20	WG772134
p-Isopropyltoluene	mg/kg	0.0223	0.0217	89.0	75.8-129	3.02	20	WG772134
sec-Butylbenzene	mg/kg	0.0224	0.0215	90.0	75.8-126	4.19	20	WG772134
Styrene	mg/kg	0.0220	0.0213	88.0	82.4-126	3.27	20	WG772134
tert-Butylbenzene	mg/kg	0.0221	0.0216	88.0	76.4-126	2.12	20	WG772134
Tetrachloroethene	mg/kg	0.0226	0.0222	90.0	73.9-125	1.78	20	WG772134
Toluene	mg/kg	0.0220	0.0218	88.0	79.7-118	1.03	20	WG772134
trans-1,2-Dichloroethene	mg/kg	0.0228	0.0225	91.0	73.8-122	1.31	20	WG772134
trans-1,3-Dichloropropene	mg/kg	0.0242	0.0235	97.0	75.9-124	3.14	20	WG772134
Trichloroethene	mg/kg	0.0217	0.0213	87.0	77.9-118	1.53	20	WG772134
Trichlorofluoromethane	mg/kg	0.0255	0.0257	102.	67.7-131	0.880	20	WG772134
Vinyl chloride	mg/kg	0.0255	0.0258	102.	66.7-130	1.27	20	WG772134
Xylenes, Total	mg/kg	0.0646	0.0630	86.0	78.8-121	2.37	20	WG772134
4-Bromofluorobenzene				93.30	71-126			WG772134
Dibromofluoromethane				105.0	78.3-121			WG772134
Toluene-d8				104.0	88.5-111			WG772134
1,1,1,2-Tetrachloroethane	mg/kg	0.0228	0.0235	91.0	72.9-124	2.83	20	WG772480
1,1,1-Trichloroethane	mg/kg	0.0265	0.0267	106.	73.7-124	0.950	20	WG772480
1,1,2,2-Tetrachloroethane	mg/kg	0.0243	0.0245	97.0	69.4-122	0.780	20	WG772480
1,1,2-Trichloroethane	mg/kg	0.0230	0.0233	92.0	79.1-118	1.18	20	WG772480
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0318	0.0312	127.	70-146	1.66	20	WG772480
1,1-Dichloroethane	mg/kg	0.0253	0.0256	101.	75-124	1.21	20	WG772480
1,1-Dichloroethene	mg/kg	0.0299	0.0304	120.	70.4-129	1.39	20	WG772480
1,1-Dichloropropene	mg/kg	0.0273	0.0258	109.	74.9-124	5.96	20	WG772480
1,2,3-Trichlorobenzene	mg/kg	0.0236	0.0229	94.0	69.3-131	3.24	20	WG772480
1,2,3-Trichloropropane	mg/kg	0.0221	0.0234	88.0	71.4-123	5.58	20	WG772480
1,2,3-Trimethylbenzene	mg/kg	0.0243	0.0252	97.0	73.6-113	3.37	20	WG772480
1,2,4-Trichlorobenzene	mg/kg	0.0240	0.0238	96.0	71.9-137	1.05	20	WG772480
1,2,4-Trimethylbenzene	mg/kg	0.0240	0.0243	96.0	75.5-122	1.42	20	WG772480
1,2-Dibromo-3-Chloropropane	mg/kg	0.0232	0.0231	93.0	62.8-133	0.260	20	WG772480
1,2-Dibromoethane	mg/kg	0.0230	0.0234	92.0	78.6-120	1.85	20	WG772480
1,2-Dichlorobenzene	mg/kg	0.0242	0.0236	97.0	78.3-118	2.52	20	WG772480
1,2-Dichloroethane	mg/kg	0.0248	0.0248	99.0	70.1-124	0.0800	20	WG772480
1,2-Dichloropropane	mg/kg	0.0251	0.0255	100.	77.9-119	1.34	20	WG772480
1,3,5-Trimethylbenzene	mg/kg	0.0248	0.0251	99.0	75.9-124	1.46	20	WG772480
1,3-Dichlorobenzene	mg/kg	0.0225	0.0220	90.0	72-126	2.25	20	WG772480
1,3-Dichloropropane	mg/kg	0.0226	0.0224	90.0	79.1-117	0.720	20	WG772480
1,4-Dichlorobenzene	mg/kg	0.0231	0.0230	92.0	78.3-117	0.530	20	WG772480
2,2-Dichloropropane	mg/kg	0.0278	0.0280	111.	61.3-136	0.580	20	WG772480
2-Butanone (MEK)	mg/kg	0.158	0.159	127.	53.7-153	0.490	21.2	WG772480
2-Chloroethyl vinyl ether	mg/kg	0.130	0.131	104.	37.7-157	0.770	20	WG772480
2-Chlorotoluene	mg/kg	0.0218	0.0220	87.0	75.6-121	0.930	20	WG772480
4-Chlorotoluene	mg/kg	0.0242	0.0238	97.0	77.3-120	1.49	20	WG772480
4-Methyl-2-pentanone (MIBK)	mg/kg	0.135	0.136	108.	70.4-137	0.760	20	WG772480
Acetone	mg/kg	0.169	0.168	135.	35.1-175	0.420	26.1	WG772480
Acrylonitrile	mg/kg	0.112	0.116	90.0	56.4-128	3.52	20	WG772480
Benzene	mg/kg	0.0250	0.0244	100.	77.1-121	2.19	20	WG772480

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Quality Assurance Report
Level II

L749844

March 02, 2015

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Bromobenzene	mg/kg	0.0234	0.0236	94.0	78.2-115	0.740	20	WG772480
Bromodichloromethane	mg/kg	0.0250	0.0252	100.	74.9-115	0.720	20	WG772480
Bromoform	mg/kg	0.0225	0.0229	90.0	65.9-132	1.73	20	WG772480
Bromomethane	mg/kg	0.0328	0.0339	131.	48.7-165	3.17	20	WG772480
Carbon tetrachloride	mg/kg	0.0262	0.0268	105.	70-124	2.26	20	WG772480
Chlorobenzene	mg/kg	0.0227	0.0236	91.0	79.1-119	3.57	20	WG772480
Chlorodibromomethane	mg/kg	0.0229	0.0229	91.0	73.5-121	0.0900	20	WG772480
Chloroethane	mg/kg	0.0285	0.0305	114.	66.2-132	6.62	20	WG772480
Chloroform	mg/kg	0.0233	0.0236	93.0	76.7-122	1.33	20	WG772480
Chloromethane	mg/kg	0.0244	0.0244	98.0	63.4-131	0.100	20	WG772480
cis-1,2-Dichloroethene	mg/kg	0.0243	0.0242	97.0	78.2-119	0.760	20	WG772480
cis-1,3-Dichloropropene	mg/kg	0.0257	0.0252	103.	79.6-120	1.83	20	WG772480
Di-isopropyl ether	mg/kg	0.0253	0.0260	101.	70.4-133	2.44	20	WG772480
Dibromomethane	mg/kg	0.0242	0.0247	97.0	79.4-120	2.01	20	WG772480
Dichlorodifluoromethane	mg/kg	0.0239	0.0248	96.0	57.1-137	3.73	20	WG772480
Ethylbenzene	mg/kg	0.0239	0.0244	96.0	79.7-122	2.10	20	WG772480
Hexachloro-1,3-butadiene	mg/kg	0.0237	0.0241	95.0	68.2-123	1.59	20	WG772480
Isopropylbenzene	mg/kg	0.0257	0.0253	103.	80-135	1.63	20	WG772480
Methyl tert-butyl ether	mg/kg	0.0235	0.0231	94.0	73-129	1.73	20	WG772480
Methylene Chloride	mg/kg	0.0222	0.0221	89.0	72.6-120	0.420	20	WG772480
n-Butylbenzene	mg/kg	0.0279	0.0269	112.	77.5-126	3.80	20	WG772480
n-Propylbenzene	mg/kg	0.0245	0.0253	98.0	77.9-123	3.21	20	WG772480
p-Isopropyltoluene	mg/kg	0.0245	0.0250	98.0	75.8-129	1.86	20	WG772480
sec-Butylbenzene	mg/kg	0.0255	0.0258	102.	75.8-126	1.24	20	WG772480
Styrene	mg/kg	0.0234	0.0243	94.0	82.4-126	3.69	20	WG772480
tert-Butylbenzene	mg/kg	0.0251	0.0254	100.	76.4-126	1.10	20	WG772480
Tetrachloroethene	mg/kg	0.0244	0.0245	97.0	73.9-125	0.520	20	WG772480
Toluene	mg/kg	0.0242	0.0240	97.0	79.7-118	0.790	20	WG772480
trans-1,2-Dichloroethene	mg/kg	0.0251	0.0254	100.	73.8-122	1.52	20	WG772480
trans-1,3-Dichloropropene	mg/kg	0.0230	0.0235	92.0	75.9-124	2.22	20	WG772480
Trichloroethene	mg/kg	0.0246	0.0247	98.0	77.9-118	0.500	20	WG772480
Trichlorofluoromethane	mg/kg	0.0287	0.0294	115.	67.7-131	2.42	20	WG772480
Vinyl chloride	mg/kg	0.0260	0.0261	104.	66.7-130	0.670	20	WG772480
Xylenes, Total	mg/kg	0.0715	0.0724	95.0	78.8-121	1.31	20	WG772480
4-Bromofluorobenzene				99.00	71-126			WG772480
Dibromofluoromethane				102.0	78.3-121			WG772480
Toluene-d8				105.0	88.5-111			WG772480
Naphthalene	mg/kg	0.0261	0.0247	104.	69.8-128	5.39	20	WG773130
4-Bromofluorobenzene				100.0	71-126			WG773130
Dibromofluoromethane				95.30	78.3-121			WG773130
Toluene-d8				99.30	88.5-111			WG773130

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1-Methylnaphthalene	mg/kg	0.0636	0.0	.08	80.0	41.8-133	L749892-18	WG771598
2-Chloronaphthalene	mg/kg	0.0552	0.0	.08	69.0	42.4-129	L749892-18	WG771598
2-Methylnaphthalene	mg/kg	0.0609	0.0	.08	76.0	37.5-137	L749892-18	WG771598
Acenaphthene	mg/kg	0.0592	0.0	.08	74.0	39.4-132	L749892-18	WG771598
Acenaphthylene	mg/kg	0.0584	0.0	.08	73.0	41.3-132	L749892-18	WG771598
Anthracene	mg/kg	0.0474	0.0	.08	59.0	36.7-144	L749892-18	WG771598
Benzo(a)anthracene	mg/kg	0.0430	0.00134	.08	52.0	28-144	L749892-18	WG771598
Benzo(a)pyrene	mg/kg	0.0465	0.00205	.08	56.0	23.8-147	L749892-18	WG771598
Benzo(b)fluoranthene	mg/kg	0.0467	0.00371	.08	54.0	18.2-147	L749892-18	WG771598
Benzo(g,h,i)perylene	mg/kg	0.0444	0.00204	.08	53.0	9.2-155	L749892-18	WG771598
Benzo(k)fluoranthene	mg/kg	0.0443	0.00106	.08	54.0	26.5-143	L749892-18	WG771598
Chrysene	mg/kg	0.0462	0.00243	.08	55.0	27.4-150	L749892-18	WG771598

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Quality Assurance Report
Level II

L749844

March 02, 2015

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Dibenz(a,h)anthracene	mg/kg	0.0455	0.0	.08	57.0	13.8-150	L749892-18	WG771598
Fluoranthene	mg/kg	0.0522	0.00335	.08	61.0	23.2-158	L749892-18	WG771598
Fluorene	mg/kg	0.0530	0.0	.08	66.0	30.8-139	L749892-18	WG771598
Indeno(1,2,3-cd)pyrene	mg/kg	0.0460	0.00167	.08	55.0	10.7-155	L749892-18	WG771598
Naphthalene	mg/kg	0.0615	0.00164	.08	75.0	34.9-133	L749892-18	WG771598
Phenanthrene	mg/kg	0.0467	0.000888	.08	57.0	20.2-150	L749892-18	WG771598
Pyrene	mg/kg	0.0550	0.00310	.08	65.0	22.6-151	L749892-18	WG771598
2-Fluorobiphenyl					83.30	38.2-135		WG771598
Nitrobenzene-d5					89.40	28.4-151		WG771598
p-Terphenyl-d14					71.30	34.2-141		WG771598
1,1,1,2-Tetrachloroethane	mg/kg	0.106	0.0	.025	85.0	64-128	L749866-01	WG772134
1,1,1-Trichloroethane	mg/kg	0.109	0.0	.025	87.0	58.7-134	L749866-01	WG772134
1,1,2,2-Tetrachloroethane	mg/kg	0.113	0.0	.025	90.0	56-132	L749866-01	WG772134
1,1,2-Trichloroethane	mg/kg	0.101	0.0	.025	81.0	66.3-125	L749866-01	WG772134
1,1,2-Trichlorotrifluoroethane	mg/kg	0.108	0.0	.025	86.0	54.8-154	L749866-01	WG772134
1,1-Dichloroethane	mg/kg	0.113	0.0	.025	91.0	58.5-132	L749866-01	WG772134
1,1-Dichloroethene	mg/kg	0.109	0.0	.025	87.0	51.1-140	L749866-01	WG772134
1,1-Dichloropropene	mg/kg	0.104	0.0	.025	83.0	57.3-136	L749866-01	WG772134
1,2,3-Trichlorobenzene	mg/kg	0.0769	0.0	.025	62.0	59.1-138	L749866-01	WG772134
1,2,3-Trichloropropane	mg/kg	0.0980	0.0	.025	78.0	61.4-128	L749866-01	WG772134
1,2,3-Trimethylbenzene	mg/kg	0.0940	0.0	.025	75.0	61.3-122	L749866-01	WG772134
1,2,4-Trichlorobenzene	mg/kg	0.0757	0.0	.025	61.0*	63.6-143	L749866-01	WG772134
1,2,4-Trimethylbenzene	mg/kg	0.0818	0.0	.025	65.0	57.4-137	L749866-01	WG772134
1,2-Dibromo-3-Chloropropane	mg/kg	0.0976	0.0	.025	78.0	57.3-136	L749866-01	WG772134
1,2-Dibromoethane	mg/kg	0.102	0.0	.025	82.0	67.1-125	L749866-01	WG772134
1,2-Dichlorobenzene	mg/kg	0.0908	0.0	.025	73.0	68.2-123	L749866-01	WG772134
1,2-Dichloroethane	mg/kg	0.0964	0.0	.025	77.0	60-126	L749866-01	WG772134
1,2-Dichloropropane	mg/kg	0.117	0.0	.025	94.0	64.2-123	L749866-01	WG772134
1,3,5-Trimethylbenzene	mg/kg	0.0868	0.0	.025	70.0	63.6-132	L749866-01	WG772134
1,3-Dichlorobenzene	mg/kg	0.0789	0.0	.025	63.0	63.1-131	L749866-01	WG772134
1,3-Dichloropropane	mg/kg	0.0976	0.0	.025	78.0	67.9-121	L749866-01	WG772134
1,4-Dichlorobenzene	mg/kg	0.0865	0.0	.025	69.0	68.6-123	L749866-01	WG772134
2,2-Dichloropropane	mg/kg	0.106	0.0	.025	85.0	50.5-144	L749866-01	WG772134
2-Butanone (MEK)	mg/kg	0.551	0.0	.125	88.0	22.4-138	L749866-01	WG772134
2-Chloroethyl vinyl ether	mg/kg	0.202	0.0	.125	32.0	10-155	L749866-01	WG772134
2-Chlorotoluene	mg/kg	0.0847	0.0	.025	68.0	63.6-128	L749866-01	WG772134
4-Chlorotoluene	mg/kg	0.0849	0.0	.025	68.0	65.7-127	L749866-01	WG772134
4-Methyl-2-pentanone (MIBK)	mg/kg	0.592	0.0	.125	95.0	60.8-140	L749866-01	WG772134
Acetone	mg/kg	0.497	0.00359	.125	79.0	10-130	L749866-01	WG772134
Acrylonitrile	mg/kg	0.516	0.0	.125	82.0	49.4-133	L749866-01	WG772134
Benzene	mg/kg	0.0987	0.0	.025	79.0	54.3-133	L749866-01	WG772134
Bromobenzene	mg/kg	0.0924	0.0	.025	74.0	63.9-124	L749866-01	WG772134
Bromodichloromethane	mg/kg	0.111	0.0	.025	88.0	63.9-121	L749866-01	WG772134
Bromoform	mg/kg	0.106	0.0	.025	85.0	59.5-134	L749866-01	WG772134
Bromomethane	mg/kg	0.147	0.0	.025	120.	41.7-155	L749866-01	WG772134
Carbon tetrachloride	mg/kg	0.112	0.0	.025	90.0	55.7-134	L749866-01	WG772134
Chlorobenzene	mg/kg	0.0938	0.0	.025	75.0	67-125	L749866-01	WG772134
Chlorodibromomethane	mg/kg	0.105	0.0	.025	84.0	64.3-125	L749866-01	WG772134
Chloroethane	mg/kg	0.167	0.0	.025	130.	51.5-136	L749866-01	WG772134
Chloroform	mg/kg	0.106	0.0	.025	85.0	63-129	L749866-01	WG772134
Chloromethane	mg/kg	0.111	0.0	.025	89.0	42.4-135	L749866-01	WG772134
cis-1,2-Dichloroethene	mg/kg	0.107	0.0	.025	86.0	59.2-129	L749866-01	WG772134
cis-1,3-Dichloropropene	mg/kg	0.102	0.0	.025	82.0	66.4-125	L749866-01	WG772134
Di-isopropyl ether	mg/kg	0.123	0.0	.025	98.0	56.9-136	L749866-01	WG772134
Dibromomethane	mg/kg	0.108	0.0	.025	86.0	68.2-124	L749866-01	WG772134
Dichlorodifluoromethane	mg/kg	0.0970	0.0	.025	78.0	40.6-144	L749866-01	WG772134
Ethylbenzene	mg/kg	0.0931	0.0	.025	74.0	61.4-133	L749866-01	WG772134

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Hexachloro-1,3-butadiene	mg/kg	0.0824	0.0	.025	66.0	55.1-136	L749866-01	WG772134
Isopropylbenzene	mg/kg	0.0928	0.0	.025	74.0	66.8-141	L749866-01	WG772134
Methyl tert-butyl ether	mg/kg	0.103	0.0	.025	82.0	57.7-134	L749866-01	WG772134
Methylene Chloride	mg/kg	0.100	0.0	.025	80.0	58.1-122	L749866-01	WG772134
n-Butylbenzene	mg/kg	0.0858	0.0	.025	69.0	62.7-140	L749866-01	WG772134
n-Propylbenzene	mg/kg	0.0892	0.0	.025	71.0	10-176	L749866-01	WG772134
Naphthalene	mg/kg	0.0805	0.000570	.025	64.0	58-135	L749866-01	WG772134
p-Isopropyltoluene	mg/kg	0.0825	0.0	.025	66.0	63.2-139	L749866-01	WG772134
sec-Butylbenzene	mg/kg	0.0869	0.0	.025	70.0	62.2-136	L749866-01	WG772134
Styrene	mg/kg	0.0912	0.0	.025	73.0	66.8-133	L749866-01	WG772134
tert-Butylbenzene	mg/kg	0.0925	0.0	.025	74.0	63.3-134	L749866-01	WG772134
Tetrachloroethene	mg/kg	0.0937	0.0	.025	75.0	53-139	L749866-01	WG772134
Toluene	mg/kg	0.0996	0.0	.025	80.0	61.4-130	L749866-01	WG772134
trans-1,2-Dichloroethene	mg/kg	0.105	0.0	.025	84.0	56.5-129	L749866-01	WG772134
trans-1,3-Dichloropropene	mg/kg	0.105	0.0	.025	84.0	64.1-128	L749866-01	WG772134
Trichloroethene	mg/kg	0.0976	0.0	.025	78.0	44.1-149	L749866-01	WG772134
Trichlorofluoromethane	mg/kg	0.116	0.0	.025	93.0	49.6-145	L749866-01	WG772134
Vinyl chloride	mg/kg	0.119	0.0	.025	95.0	47.8-137	L749866-01	WG772134
Xylenes, Total	mg/kg	0.275	0.0	.075	73.0	63.3-131	L749866-01	WG772134
4-Bromofluorobenzene					92.40	71-126		WG772134
Dibromofluoromethane					107.0	78.3-121		WG772134
Toluene-d8					104.0	88.5-111		WG772134
1,1,1,2-Tetrachloroethane	mg/kg	0.112	0.0	.025	89.0	64-128	L749739-29	WG772480
1,1,1-Trichloroethane	mg/kg	0.132	0.0	.025	100.	58.7-134	L749739-29	WG772480
1,1,2,2-Tetrachloroethane	mg/kg	0.109	0.0	.025	88.0	56-132	L749739-29	WG772480
1,1,2-Trichloroethane	mg/kg	0.108	0.0	.025	86.0	66.3-125	L749739-29	WG772480
1,1,2-Trichlorotrifluoroethane	mg/kg	0.149	0.0	.025	120.	54.8-154	L749739-29	WG772480
1,1-Dichloroethane	mg/kg	0.123	0.0	.025	99.0	58.5-132	L749739-29	WG772480
1,1-Dichloroethene	mg/kg	0.149	0.0	.025	120.	51.1-140	L749739-29	WG772480
1,1-Dichloropropene	mg/kg	0.125	0.0	.025	100.	57.3-136	L749739-29	WG772480
1,2,3-Trichlorobenzene	mg/kg	0.0900	0.000703	.025	72.0	59.1-138	L749739-29	WG772480
1,2,3-Trichloropropane	mg/kg	0.103	0.0	.025	82.0	61.4-128	L749739-29	WG772480
1,2,3-Trimethylbenzene	mg/kg	0.115	0.0	.025	92.0	61.3-122	L749739-29	WG772480
1,2,4-Trichlorobenzene	mg/kg	0.0912	0.0	.025	73.0	63.6-143	L749739-29	WG772480
1,2,4-Trimethylbenzene	mg/kg	0.110	0.0	.025	88.0	57.4-137	L749739-29	WG772480
1,2-Dibromo-3-Chloropropane	mg/kg	0.103	0.0	.025	82.0	57.3-136	L749739-29	WG772480
1,2-Dibromoethane	mg/kg	0.109	0.0	.025	87.0	67.1-125	L749739-29	WG772480
1,2-Dichlorobenzene	mg/kg	0.106	0.0	.025	85.0	68.2-123	L749739-29	WG772480
1,2-Dichloroethane	mg/kg	0.121	0.0	.025	96.0	60-126	L749739-29	WG772480
1,2-Dichloropropane	mg/kg	0.119	0.0	.025	95.0	64.2-123	L749739-29	WG772480
1,3,5-Trimethylbenzene	mg/kg	0.112	0.0	.025	89.0	63.6-132	L749739-29	WG772480
1,3-Dichlorobenzene	mg/kg	0.0919	0.0	.025	74.0	63.1-131	L749739-29	WG772480
1,3-Dichloropropane	mg/kg	0.102	0.0	.025	81.0	67.9-121	L749739-29	WG772480
1,4-Dichlorobenzene	mg/kg	0.101	0.0	.025	81.0	68.6-123	L749739-29	WG772480
2,2-Dichloropropane	mg/kg	0.143	0.0	.025	120.	50.5-144	L749739-29	WG772480
2-Butanone (MEK)	mg/kg	0.726	0.00298	.125	120.	22.4-138	L749739-29	WG772480
2-Chloroethyl vinyl ether	mg/kg	0.584	0.0	.125	93.0	10-155	L749739-29	WG772480
2-Chlorotoluene	mg/kg	0.0965	0.0	.025	77.0	63.6-128	L749739-29	WG772480
4-Chlorotoluene	mg/kg	0.105	0.0	.025	84.0	65.7-127	L749739-29	WG772480
4-Methyl-2-pentanone (MIBK)	mg/kg	0.614	0.0	.125	98.0	60.8-140	L749739-29	WG772480
Acetone	mg/kg	0.813	0.0513	.125	120.	10-130	L749739-29	WG772480
Acrylonitrile	mg/kg	0.521	0.0	.125	83.0	49.4-133	L749739-29	WG772480
Benzene	mg/kg	0.119	0.0	.025	95.0	54.3-133	L749739-29	WG772480
Bromobenzene	mg/kg	0.106	0.0	.025	85.0	63.9-124	L749739-29	WG772480
Bromodichloromethane	mg/kg	0.119	0.0	.025	96.0	63.9-121	L749739-29	WG772480
Bromoform	mg/kg	0.104	0.0	.025	84.0	59.5-134	L749739-29	WG772480
Bromomethane	mg/kg	0.160	0.0	.025	130.	41.7-155	L749739-29	WG772480

* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L749844

March 02, 2015

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Carbon tetrachloride	mg/kg	0.132	0.0	.025	100.	55.7-134	L749739-29	WG772480
Chlorobenzene	mg/kg	0.108	0.0	.025	86.0	67-125	L749739-29	WG772480
Chlorodibromomethane	mg/kg	0.105	0.0	.025	84.0	64.3-125	L749739-29	WG772480
Chloroethane	mg/kg	0.148	0.0	.025	120.	51.5-136	L749739-29	WG772480
Chloroform	mg/kg	0.115	0.0	.025	92.0	63-129	L749739-29	WG772480
Chloromethane	mg/kg	0.117	0.0	.025	94.0	42.4-135	L749739-29	WG772480
cis-1,2-Dichloroethene	mg/kg	0.120	0.0	.025	96.0	59.2-129	L749739-29	WG772480
cis-1,3-Dichloropropene	mg/kg	0.116	0.0	.025	93.0	66.4-125	L749739-29	WG772480
Di-isopropyl ether	mg/kg	0.124	0.0	.025	99.0	56.9-136	L749739-29	WG772480
Dibromomethane	mg/kg	0.112	0.0	.025	90.0	68.2-124	L749739-29	WG772480
Dichlorodifluoromethane	mg/kg	0.118	0.0	.025	94.0	40.6-144	L749739-29	WG772480
Ethylbenzene	mg/kg	0.116	0.0	.025	92.0	61.4-133	L749739-29	WG772480
Hexachloro-1,3-butadiene	mg/kg	0.0807	0.0	.025	64.0	55.1-136	L749739-29	WG772480
Isopropylbenzene	mg/kg	0.115	0.0	.025	92.0	66.8-141	L749739-29	WG772480
Methyl tert-butyl ether	mg/kg	0.114	0.0	.025	91.0	57.7-134	L749739-29	WG772480
Methylene Chloride	mg/kg	0.104	0.000755	.025	83.0	58.1-122	L749739-29	WG772480
n-Butylbenzene	mg/kg	0.111	0.000336	.025	89.0	62.7-140	L749739-29	WG772480
n-Propylbenzene	mg/kg	0.112	0.0	.025	89.0	10-176	L749739-29	WG772480
p-Isopropyltoluene	mg/kg	0.102	0.0	.025	82.0	63.2-139	L749739-29	WG772480
sec-Butylbenzene	mg/kg	0.110	0.0	.025	88.0	62.2-136	L749739-29	WG772480
Styrene	mg/kg	0.105	0.0	.025	84.0	66.8-133	L749739-29	WG772480
tert-Butylbenzene	mg/kg	0.112	0.0	.025	90.0	63.3-134	L749739-29	WG772480
Tetrachloroethene	mg/kg	0.107	0.0	.025	86.0	53-139	L749739-29	WG772480
Toluene	mg/kg	0.116	0.000438	.025	92.0	61.4-130	L749739-29	WG772480
trans-1,2-Dichloroethene	mg/kg	0.123	0.0	.025	98.0	56.5-129	L749739-29	WG772480
trans-1,3-Dichloropropene	mg/kg	0.104	0.0	.025	83.0	64.1-128	L749739-29	WG772480
Trichloroethene	mg/kg	0.118	0.0	.025	94.0	44.1-149	L749739-29	WG772480
Trichlorofluoromethane	mg/kg	0.142	0.0	.025	110.	49.6-145	L749739-29	WG772480
Vinyl chloride	mg/kg	0.127	0.0	.025	100.	47.8-137	L749739-29	WG772480
Xylenes, Total	mg/kg	0.338	0.0	.075	90.0	63.3-131	L749739-29	WG772480
4-Bromofluorobenzene					99.00	71-126		WG772480
Dibromofluoromethane					105.0	78.3-121		WG772480
Toluene-d8					103.0	88.5-111		WG772480

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1-Methylnaphthalene	mg/kg	0.0628	0.0636	78.5	41.8-133	1.27	20.9	L749892-18	WG771598
2-Chloronaphthalene	mg/kg	0.0542	0.0552	67.8	42.4-129	1.68	20	L749892-18	WG771598
2-Methylnaphthalene	mg/kg	0.0598	0.0609	74.8	37.5-137	1.88	20.4	L749892-18	WG771598
Acenaphthene	mg/kg	0.0591	0.0592	73.9	39.4-132	0.140	20	L749892-18	WG771598
Acenaphthylene	mg/kg	0.0579	0.0584	72.4	41.3-132	0.910	20	L749892-18	WG771598
Anthracene	mg/kg	0.0493	0.0474	61.6	36.7-144	3.88	20.7	L749892-18	WG771598
Benzo(a)anthracene	mg/kg	0.0429	0.0430	52.0	28-144	0.0400	24.7	L749892-18	WG771598
Benzo(a)pyrene	mg/kg	0.0471	0.0465	56.2	23.8-147	1.16	25.3	L749892-18	WG771598
Benzo(b)fluoranthene	mg/kg	0.0477	0.0467	55.0	18.2-147	2.01	29.5	L749892-18	WG771598
Benzo(g,h,i)perylene	mg/kg	0.0447	0.0444	53.4	9.2-155	0.730	29.2	L749892-18	WG771598
Benzo(k)fluoranthene	mg/kg	0.0451	0.0443	55.1	26.5-143	1.87	26.1	L749892-18	WG771598
Chrysene	mg/kg	0.0467	0.0462	55.4	27.4-150	1.26	25.7	L749892-18	WG771598
Dibenz(a,h)anthracene	mg/kg	0.0465	0.0455	58.1	13.8-150	2.05	25.8	L749892-18	WG771598
Fluoranthene	mg/kg	0.0528	0.0522	61.9	23.2-158	1.18	26	L749892-18	WG771598
Fluorene	mg/kg	0.0530	0.0530	66.3	30.8-139	0.0600	20	L749892-18	WG771598
Indeno(1,2,3-cd)pyrene	mg/kg	0.0467	0.0460	56.3	10.7-155	1.69	26.9	L749892-18	WG771598
Naphthalene	mg/kg	0.0604	0.0615	73.5	34.9-133	1.73	20.4	L749892-18	WG771598
Phenanthrene	mg/kg	0.0473	0.0467	58.0	20.2-150	1.22	24.6	L749892-18	WG771598
Pyrene	mg/kg	0.0545	0.0550	64.2	22.6-151	0.930	25.1	L749892-18	WG771598
2-Fluorobiphenyl				81.80	38.2-135				WG771598
Nitrobenzene-d5				87.00	28.4-151				WG771598
p-Terphenyl-d14				65.20	34.2-141				WG771598

* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L749844

March 02, 2015

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0989	0.106	79.1	64-128	7.29	20	L749866-01	WG772134
1,1,1-Trichloroethane	mg/kg	0.106	0.109	84.4	58.7-134	2.77	20	L749866-01	WG772134
1,1,2,2-Tetrachloroethane	mg/kg	0.108	0.113	86.4	56-132	4.23	22.2	L749866-01	WG772134
1,1,2-Trichloroethane	mg/kg	0.0956	0.101	76.5	66.3-125	5.74	20	L749866-01	WG772134
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0969	0.108	77.5	54.8-154	10.7	22.5	L749866-01	WG772134
1,1-Dichloroethane	mg/kg	0.107	0.113	85.6	58.5-132	5.62	20	L749866-01	WG772134
1,1-Dichloroethene	mg/kg	0.106	0.109	85.0	51.1-140	2.81	20.2	L749866-01	WG772134
1,1-Dichloropropene	mg/kg	0.0993	0.104	79.5	57.3-136	4.43	20	L749866-01	WG772134
1,2,3-Trichlorobenzene	mg/kg	0.0646	0.0769	51.7*	59.1-138	17.3	23.7	L749866-01	WG772134
1,2,3-Trichloropropane	mg/kg	0.0988	0.0980	79.1	61.4-128	0.850	22.4	L749866-01	WG772134
1,2,3-Trimethylbenzene	mg/kg	0.0854	0.0940	68.4	61.3-122	9.57	20	L749866-01	WG772134
1,2,4-Trichlorobenzene	mg/kg	0.0615	0.0757	49.2*	63.6-143	20.7	21.9	L749866-01	WG772134
1,2,4-Trimethylbenzene	mg/kg	0.0730	0.0818	58.4	57.4-137	11.4	20	L749866-01	WG772134
1,2-Dibromo-3-Chloropropane	mg/kg	0.0967	0.0976	77.4	57.3-136	0.890	27	L749866-01	WG772134
1,2-Dibromoethane	mg/kg	0.0973	0.102	77.9	67.1-125	5.14	20	L749866-01	WG772134
1,2-Dichlorobenzene	mg/kg	0.0794	0.0908	63.5*	68.2-123	13.3	20	L749866-01	WG772134
1,2-Dichloroethane	mg/kg	0.0926	0.0964	74.1	60-126	3.98	20	L749866-01	WG772134
1,2-Dichloropropane	mg/kg	0.113	0.117	90.4	64.2-123	3.53	20	L749866-01	WG772134
1,3,5-Trimethylbenzene	mg/kg	0.0766	0.0868	61.3*	63.6-132	12.6	20.5	L749866-01	WG772134
1,3-Dichlorobenzene	mg/kg	0.0695	0.0789	55.6*	63.1-131	12.7	20	L749866-01	WG772134
1,3-Dichloropropane	mg/kg	0.0916	0.0976	73.3	67.9-121	6.32	20	L749866-01	WG772134
1,4-Dichlorobenzene	mg/kg	0.0741	0.0865	59.3*	68.6-123	15.4	20	L749866-01	WG772134
2,2-Dichloropropane	mg/kg	0.103	0.106	82.3	50.5-144	2.99	21.9	L749866-01	WG772134
2-Butanone (MEK)	mg/kg	0.568	0.551	90.9	22.4-138	3.03	27	L749866-01	WG772134
2-Chloroethyl vinyl ether	mg/kg	0.183	0.202	29.2	10-155	10.1	40	L749866-01	WG772134
2-Chlorotoluene	mg/kg	0.0754	0.0847	60.4*	63.6-128	11.6	20	L749866-01	WG772134
4-Chlorotoluene	mg/kg	0.0743	0.0849	59.4*	65.7-127	13.3	20	L749866-01	WG772134
4-Methyl-2-pentanone (MIBK)	mg/kg	0.616	0.592	98.5	60.8-140	3.91	25.1	L749866-01	WG772134
Acetone	mg/kg	0.522	0.497	83.0	10-130	4.84	27.9	L749866-01	WG772134
Acrylonitrile	mg/kg	0.533	0.516	85.3	49.4-133	3.38	25.3	L749866-01	WG772134
Benzene	mg/kg	0.0946	0.0987	75.7	54.3-133	4.25	20	L749866-01	WG772134
Bromobenzene	mg/kg	0.0833	0.0924	66.7	63.9-124	10.3	20	L749866-01	WG772134
Bromodichloromethane	mg/kg	0.105	0.111	83.8	63.9-121	5.49	20	L749866-01	WG772134
Bromoform	mg/kg	0.101	0.106	80.8	59.5-134	5.24	20.8	L749866-01	WG772134
Bromomethane	mg/kg	0.135	0.147	108.	41.7-155	8.34	20.5	L749866-01	WG772134
Carbon tetrachloride	mg/kg	0.104	0.112	83.4	55.7-134	7.41	20.3	L749866-01	WG772134
Chlorobenzene	mg/kg	0.0856	0.0938	68.5	67-125	9.18	20	L749866-01	WG772134
Chlorodibromomethane	mg/kg	0.100	0.105	80.1	64.3-125	4.89	20	L749866-01	WG772134
Chloroethane	mg/kg	0.163	0.167	130.	51.5-136	2.70	20.8	L749866-01	WG772134
Chloroform	mg/kg	0.101	0.106	80.7	63-129	4.69	20	L749866-01	WG772134
Chloromethane	mg/kg	0.109	0.111	86.8	42.4-135	2.18	20	L749866-01	WG772134
cis-1,2-Dichloroethene	mg/kg	0.100	0.107	80.1	59.2-129	6.99	20	L749866-01	WG772134
cis-1,3-Dichloropropene	mg/kg	0.0956	0.102	76.5	66.4-125	6.45	20	L749866-01	WG772134
Di-isopropyl ether	mg/kg	0.117	0.123	93.9	56.9-136	4.81	20	L749866-01	WG772134
Dibromomethane	mg/kg	0.105	0.108	84.1	68.2-124	2.31	20	L749866-01	WG772134
Dichlorodifluoromethane	mg/kg	0.0916	0.0970	73.3	40.6-144	5.74	20.2	L749866-01	WG772134
Ethylbenzene	mg/kg	0.0840	0.0931	67.2	61.4-133	10.3	20	L749866-01	WG772134
Hexachloro-1,3-butadiene	mg/kg	0.0621	0.0824	49.6*	55.1-136	28.1*	23.6	L749866-01	WG772134
Isopropylbenzene	mg/kg	0.0837	0.0928	67.0	66.8-141	10.3	20	L749866-01	WG772134
Methyl tert-butyl ether	mg/kg	0.0995	0.103	79.6	57.7-134	3.51	20	L749866-01	WG772134
Methylene Chloride	mg/kg	0.0941	0.100	75.2	58.1-122	6.31	20	L749866-01	WG772134
n-Butylbenzene	mg/kg	0.0716	0.0858	57.3*	62.7-140	18.0	20	L749866-01	WG772134
n-Propylbenzene	mg/kg	0.0781	0.0892	62.5	10-176	13.3	26.6	L749866-01	WG772134
Naphthalene	mg/kg	0.0739	0.0805	58.6	58-135	8.63	25.5	L749866-01	WG772134
p-Isopropyltoluene	mg/kg	0.0726	0.0825	58.0*	63.2-139	12.8	20.4	L749866-01	WG772134
sec-Butylbenzene	mg/kg	0.0755	0.0869	60.4*	62.2-136	14.1	20.3	L749866-01	WG772134
Styrene	mg/kg	0.0817	0.0912	65.4*	66.8-133	11.0	20	L749866-01	WG772134
tert-Butylbenzene	mg/kg	0.0829	0.0925	66.3	63.3-134	10.9	20.3	L749866-01	WG772134
Tetrachloroethene	mg/kg	0.0844	0.0937	67.5	53-139	10.4	20	L749866-01	WG772134

* Performance of this Analyte is outside of established criteria.
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Craig Lugowski
17301 W. Colfax Avenue, Suite 152

Golden, CO 80401

Quality Assurance Report
Level II

L749844

March 02, 2015

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Toluene	mg/kg	0.0939	0.0996	75.1	61.4-130	5.81	20	L749866-01	WG772134
trans-1,2-Dichloroethene	mg/kg	0.0980	0.105	78.4	56.5-129	7.22	20	L749866-01	WG772134
trans-1,3-Dichloropropene	mg/kg	0.0988	0.105	79.0	64.1-128	6.12	20	L749866-01	WG772134
Trichloroethene	mg/kg	0.0933	0.0976	74.6	44.1-149	4.48	20	L749866-01	WG772134
Trichlorofluoromethane	mg/kg	0.110	0.116	87.9	49.6-145	5.26	21.2	L749866-01	WG772134
Vinyl chloride	mg/kg	0.114	0.119	91.3	47.8-137	4.02	20	L749866-01	WG772134
Xylenes, Total	mg/kg	0.249	0.275	66.3	63.3-131	9.87	20	L749866-01	WG772134
4-Bromofluorobenzene				91.60	71-126				WG772134
Dibromofluoromethane				107.0	78.3-121				WG772134
Toluene-d8				105.0	88.5-111				WG772134
1,1,1,2-Tetrachloroethane	mg/kg	0.106	0.112	84.5	64-128	5.46	20	L749739-29	WG772480
1,1,1-Trichloroethane	mg/kg	0.126	0.132	101.	58.7-134	4.27	20	L749739-29	WG772480
1,1,2,2-Tetrachloroethane	mg/kg	0.108	0.109	86.3	56-132	1.44	22.2	L749739-29	WG772480
1,1,2-Trichloroethane	mg/kg	0.106	0.108	85.2	66.3-125	1.50	20	L749739-29	WG772480
1,1,2-Trichlorotrifluoroethane	mg/kg	0.143	0.149	114.	54.8-154	3.75	22.5	L749739-29	WG772480
1,1-Dichloroethane	mg/kg	0.123	0.123	98.2	58.5-132	0.440	20	L749739-29	WG772480
1,1-Dichloroethene	mg/kg	0.144	0.149	116.	51.1-140	3.20	20.2	L749739-29	WG772480
1,1-Dichloropropene	mg/kg	0.123	0.125	98.7	57.3-136	1.61	20	L749739-29	WG772480
1,2,3-Trichlorobenzene	mg/kg	0.0851	0.0900	67.5	59.1-138	5.67	23.7	L749739-29	WG772480
1,2,3-Trichloropropane	mg/kg	0.103	0.103	82.2	61.4-128	0.200	22.4	L749739-29	WG772480
1,2,3-Trimethylbenzene	mg/kg	0.110	0.115	88.1	61.3-122	4.53	20	L749739-29	WG772480
1,2,4-Trichlorobenzene	mg/kg	0.0862	0.0912	69.0	63.6-143	5.55	21.9	L749739-29	WG772480
1,2,4-Trimethylbenzene	mg/kg	0.107	0.110	85.2	57.4-137	3.56	20	L749739-29	WG772480
1,2-Dibromo-3-Chloropropane	mg/kg	0.101	0.103	81.0	57.3-136	1.79	27	L749739-29	WG772480
1,2-Dibromoethane	mg/kg	0.110	0.109	87.7	67.1-125	0.600	20	L749739-29	WG772480
1,2-Dichlorobenzene	mg/kg	0.103	0.106	82.1	68.2-123	3.19	20	L749739-29	WG772480
1,2-Dichloroethane	mg/kg	0.119	0.121	95.0	60-126	1.46	20	L749739-29	WG772480
1,2-Dichloropropane	mg/kg	0.119	0.119	95.0	64.2-123	0.480	20	L749739-29	WG772480
1,3,5-Trimethylbenzene	mg/kg	0.110	0.112	88.2	63.6-132	1.39	20.5	L749739-29	WG772480
1,3-Dichlorobenzene	mg/kg	0.0956	0.0919	76.5	63.1-131	3.94	20	L749739-29	WG772480
1,3-Dichloropropane	mg/kg	0.107	0.102	85.7	67.9-121	5.09	20	L749739-29	WG772480
1,4-Dichlorobenzene	mg/kg	0.0991	0.101	79.3	68.6-123	1.63	20	L749739-29	WG772480
2,2-Dichloropropane	mg/kg	0.132	0.143	106.	50.5-144	8.03	21.9	L749739-29	WG772480
2-Butanone (MEK)	mg/kg	0.703	0.726	112.	22.4-138	3.30	27	L749739-29	WG772480
2-Chloroethyl vinyl ether	mg/kg	0.597	0.584	95.6	10-155	2.28	40	L749739-29	WG772480
2-Chlorotoluene	mg/kg	0.0946	0.0965	75.7	63.6-128	1.94	20	L749739-29	WG772480
4-Chlorotoluene	mg/kg	0.105	0.105	84.1	65.7-127	0.330	20	L749739-29	WG772480
4-Methyl-2-pentanone (MIBK)	mg/kg	0.609	0.614	97.5	60.8-140	0.810	25.1	L749739-29	WG772480
Acetone	mg/kg	0.764	0.813	114.	10-130	6.15	27.9	L749739-29	WG772480
Acrylonitrile	mg/kg	0.513	0.521	82.1	49.4-133	1.60	25.3	L749739-29	WG772480
Benzene	mg/kg	0.116	0.119	93.0	54.3-133	2.33	20	L749739-29	WG772480
Bromobenzene	mg/kg	0.106	0.106	84.8	63.9-124	0.400	20	L749739-29	WG772480
Bromodichloromethane	mg/kg	0.117	0.119	93.7	63.9-121	1.96	20	L749739-29	WG772480
Bromoform	mg/kg	0.104	0.104	83.4	59.5-134	0.160	20.8	L749739-29	WG772480
Bromomethane	mg/kg	0.159	0.160	127.	41.7-155	1.01	20.5	L749739-29	WG772480
Carbon tetrachloride	mg/kg	0.126	0.132	100.	55.7-134	4.63	20.3	L749739-29	WG772480
Chlorobenzene	mg/kg	0.107	0.108	85.6	67-125	0.520	20	L749739-29	WG772480
Chlorodibromomethane	mg/kg	0.105	0.105	84.2	64.3-125	0.0900	20	L749739-29	WG772480
Chloroethane	mg/kg	0.138	0.148	110.	51.5-136	7.14	20.8	L749739-29	WG772480
Chloroform	mg/kg	0.111	0.115	88.6	63-129	4.01	20	L749739-29	WG772480
Chloromethane	mg/kg	0.113	0.117	90.7	42.4-135	3.23	20	L749739-29	WG772480
cis-1,2-Dichloroethene	mg/kg	0.115	0.120	92.0	59.2-129	4.18	20	L749739-29	WG772480
cis-1,3-Dichloropropene	mg/kg	0.114	0.116	91.3	66.4-125	1.98	20	L749739-29	WG772480
Di-isopropyl ether	mg/kg	0.124	0.124	99.0	56.9-136	0.210	20	L749739-29	WG772480
Dibromomethane	mg/kg	0.111	0.112	89.1	68.2-124	0.900	20	L749739-29	WG772480
Dichlorodifluoromethane	mg/kg	0.112	0.118	89.3	40.6-144	5.40	20.2	L749739-29	WG772480
Ethylbenzene	mg/kg	0.113	0.116	90.6	61.4-133	2.14	20	L749739-29	WG772480

* Performance of this Analyte is outside of established criteria.
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Golden, CO 80401

Quality Assurance Report
Level II

L749844

March 02, 2015

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Hexachloro-1,3-butadiene	mg/kg	0.0796	0.0807	63.7	55.1-136	1.33	23.6	L749739-29	WG772480
Isopropylbenzene	mg/kg	0.116	0.115	92.4	66.8-141	0.830	20	L749739-29	WG772480
Methyl tert-butyl ether	mg/kg	0.110	0.114	87.8	57.7-134	3.69	20	L749739-29	WG772480
Methylene Chloride	mg/kg	0.103	0.104	81.8	58.1-122	0.880	20	L749739-29	WG772480
n-Butylbenzene	mg/kg	0.105	0.111	84.0	62.7-140	5.24	20	L749739-29	WG772480
n-Propylbenzene	mg/kg	0.110	0.112	87.9	10-176	1.56	26.6	L749739-29	WG772480
p-Isopropyltoluene	mg/kg	0.106	0.102	84.8	63.2-139	3.55	20.4	L749739-29	WG772480
sec-Butylbenzene	mg/kg	0.110	0.110	87.7	62.2-136	0.330	20.3	L749739-29	WG772480
Styrene	mg/kg	0.103	0.105	82.0	66.8-133	2.83	20	L749739-29	WG772480
tert-Butylbenzene	mg/kg	0.112	0.112	89.7	63.3-134	0.0400	20.3	L749739-29	WG772480
Tetrachloroethene	mg/kg	0.109	0.107	87.2	53-139	1.77	20	L749739-29	WG772480
Toluene	mg/kg	0.115	0.116	91.8	61.4-130	0.370	20	L749739-29	WG772480
trans-1,2-Dichloroethene	mg/kg	0.120	0.123	95.7	56.5-129	2.68	20	L749739-29	WG772480
trans-1,3-Dichloropropene	mg/kg	0.105	0.104	84.1	64.1-128	0.840	20	L749739-29	WG772480
Trichloroethene	mg/kg	0.116	0.118	92.5	44.1-149	1.99	20	L749739-29	WG772480
Trichlorofluoromethane	mg/kg	0.137	0.142	109.	49.6-145	3.52	21.2	L749739-29	WG772480
Vinyl chloride	mg/kg	0.127	0.127	101.	47.8-137	0.440	20	L749739-29	WG772480
Xylenes, Total	mg/kg	0.339	0.338	90.4	63.3-131	0.210	20	L749739-29	WG772480
4-Bromofluorobenzene				99.40	71-126				WG772480
Dibromofluoromethane				105.0	78.3-121				WG772480
Toluene-d8				103.0	88.5-111				WG772480

Batch number /Run number / Sample number cross reference

WG771598: R3021615: L749844-01 02 03 04
WG772134: R3022172: L749844-01
WG772480: R3022293: L749844-02 03 04
WG773130: R3022512: L749844-02 03 04

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L749844

March 02, 2015

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address:
USA Environmental, LP
17301 W. Colfax Ave., Suite 152
Golden, CO 80401

Billing Information: USAENVGCO10614S

Report to: ~~Mr. Michael Maguire~~ Mr. Craig Lugowski

Email To: CLugowski ~~mmaguire~~@usaenviro.com

Project Description: Boulder 13th Street Plaza

City/State Collected: Boulder, CO

Phone: 303-242-~~8425~~ 8050
Fax: 303-242-8429

Client Project # 5047-RC-C100

Lab Project # USAENVGCO-BOULDER

Collected by (print): Andrew Stone

Site/Facility ID #

P.O. #

Collected by (signature): [signature]
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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Fax: 615-758-5859

L# L749844

B149

Acctnum: USAENVGCO
Template:
Prelogin:
TSR: Darren Reeder
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Ctrs	VOC's (8260) (1) 4oz jar	PAHSIM (1) 4oz jar	Rem./Contaminant	Sample # (lab only)
~~MW-14~~ COB-MW-14-022015	Comp	SS	8'-9'	2/19/15	0945	2	X	X		-01
~~MW-15~~ COB-MW15-022015	Comp	SS	8'-10'	2/19/15	1250	2	X	X		02
~~MW-16~~ COB-MW16-022015	Comp	SS	7'-9'	2/20/15	0820	2	X	X		03
~~MS/MSD~~		SS				2				
~~Duplicate~~ COB-FieldDup-022015		SS	—	2/20/15	0000	2	X	X		04
		SS								
		GW								
		GW								
		GW								
		GW								

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____
Flow _____ Other _____

Remarks: 6272 8613 2230

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
[signature]	2/20/15	1600	FedEx Boulder, CO
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			[signature]

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: 2.4 °C Bottles Received: 8
Date: 2/21/15 Time: 1045

Condition: (lab use only) JB3
COC Seal Intact: ___Y ___N ___NA
pH Checked: NCF:

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Report Summary

Monday March 09, 2015

Report Number: L750320
Samples Received: 02/25/15
Client Project: 5047-RC-C100

Description: Boulder 13th Street Plaza

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Darren Reeder , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-01

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW1-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 09:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	03/01/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	03/01/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	03/01/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	03/01/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	03/01/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	03/01/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/01/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/01/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	03/01/15	1
Chloroethane	U	0.00045	0.0050	mg/l	J4	8260B	03/01/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l	J4	8260B	03/01/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	03/01/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	03/01/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	03/01/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	03/01/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	03/01/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	03/01/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	03/01/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	03/01/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/01/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/01/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	03/01/15	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-01

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW1-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 09:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	03/01/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	03/01/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	03/01/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
Naphthalene	U	0.0010	0.0050	mg/l		8260B	03/01/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	03/01/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	03/01/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	03/01/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	03/01/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	03/01/15	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	03/01/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	03/01/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	03/01/15	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	03/01/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	03/01/15	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	03/01/15	1
Dibromofluoromethane	106.			% Rec.		8260B	03/01/15	1
4-Bromofluorobenzene	91.5			% Rec.		8260B	03/01/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0000076	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthene	U	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthylene	U	0.0000068	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)anthracene	U	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)pyrene	U	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(b)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(g,h,i)perylene	U	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Chrysene	U	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	02/27/15	1
Fluoranthene	U	0.000016	0.000050	mg/l		8270C-S	02/27/15	1
Fluorene	U	0.0000085	0.000050	mg/l		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-01

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW1-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 09:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000015	0.000050	mg/l		8270C-S	02/27/15	1
Naphthalene	0.000022	0.000020	0.00025	mg/l	J	8270C-S	02/27/15	1
Phenanthrene	U	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Pyrene	U	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
1-Methylnaphthalene	0.000011	0.0000082	0.00025	mg/l	J	8270C-S	02/27/15	1
2-Methylnaphthalene	U	0.0000090	0.00025	mg/l		8270C-S	02/27/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	110.			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	106.			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	116.			% Rec.		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-02

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW2-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 09:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	03/01/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	03/01/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	03/01/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	03/01/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	03/01/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	03/01/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/01/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/01/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	03/01/15	1
Chloroethane	U	0.00045	0.0050	mg/l	J4	8260B	03/01/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l	J4	8260B	03/01/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	03/01/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	03/01/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	03/01/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	03/01/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	03/01/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	03/01/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	03/01/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	03/01/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/01/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/01/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	03/01/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-02

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW2-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 09:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	03/01/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	03/01/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	03/01/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
Naphthalene	U	0.0010	0.0050	mg/l		8260B	03/01/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	03/01/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	03/01/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	03/01/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	03/01/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	03/01/15	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	03/01/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	03/01/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	03/01/15	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	03/01/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	03/01/15	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	03/01/15	1
Dibromofluoromethane	106.			% Rec.		8260B	03/01/15	1
4-Bromofluorobenzene	93.5			% Rec.		8260B	03/01/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.000017	0.0000076	0.000050	mg/l	J	8270C-S	02/27/15	1
Acenaphthene	U	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthylene	0.000032	0.0000068	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(a)anthracene	0.000039	0.000012	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(a)pyrene	0.000048	0.000012	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(b)fluoranthene	0.000038	0.000014	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(g,h,i)perylene	0.000034	0.000011	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(k)fluoranthene	0.000014	0.000014	0.000050	mg/l	J	8270C-S	02/27/15	1
Chrysene	0.000023	0.000011	0.000050	mg/l	J	8270C-S	02/27/15	1
Dibenz(a,h)anthracene	0.0000056	0.0000040	0.000050	mg/l	J	8270C-S	02/27/15	1
Fluoranthene	0.000037	0.000016	0.000050	mg/l	J	8270C-S	02/27/15	1
Fluorene	U	0.0000085	0.000050	mg/l		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-02

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW2-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 09:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000022	0.000015	0.000050	mg/l	J	8270C-S	02/27/15	1
Naphthalene	0.000044	0.000020	0.00025	mg/l	J	8270C-S	02/27/15	1
Phenanthrene	U	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Pyrene	0.00045	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
1-Methylnaphthalene	0.000011	0.0000082	0.00025	mg/l	J	8270C-S	02/27/15	1
2-Methylnaphthalene	U	0.0000090	0.00025	mg/l		8270C-S	02/27/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	102.			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	101.			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	101.			% Rec.		8270C-S	02/27/15	1

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MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-03

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW3R-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 13:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.50	2.5	mg/l		8260B	03/01/15	50
Acrolein	U	0.44	2.5	mg/l		8260B	03/01/15	50
Acrylonitrile	U	0.094	0.50	mg/l		8260B	03/01/15	50
Benzene	0.19	0.016	0.050	mg/l		8260B	03/01/15	50
Bromobenzene	U	0.018	0.050	mg/l		8260B	03/01/15	50
Bromodichloromethane	U	0.019	0.050	mg/l		8260B	03/01/15	50
Bromoform	U	0.023	0.050	mg/l		8260B	03/01/15	50
Bromomethane	U	0.043	0.25	mg/l		8260B	03/01/15	50
n-Butylbenzene	U	0.018	0.050	mg/l		8260B	03/01/15	50
sec-Butylbenzene	U	0.018	0.050	mg/l		8260B	03/01/15	50
tert-Butylbenzene	U	0.020	0.050	mg/l		8260B	03/01/15	50
Carbon tetrachloride	U	0.019	0.050	mg/l		8260B	03/01/15	50
Chlorobenzene	U	0.017	0.050	mg/l		8260B	03/01/15	50
Chlorodibromomethane	U	0.016	0.050	mg/l		8260B	03/01/15	50
Chloroethane	U	0.023	0.25	mg/l	J4	8260B	03/01/15	50
2-Chloroethyl vinyl ether	U	0.15	2.5	mg/l	J4	8260B	03/01/15	50
Chloroform	U	0.016	0.25	mg/l		8260B	03/01/15	50
Chloromethane	U	0.014	0.13	mg/l		8260B	03/01/15	50
2-Chlorotoluene	U	0.019	0.050	mg/l		8260B	03/01/15	50
4-Chlorotoluene	U	0.018	0.050	mg/l		8260B	03/01/15	50
1,2-Dibromo-3-Chloropropane	U	0.066	0.25	mg/l		8260B	03/01/15	50
1,2-Dibromoethane	U	0.019	0.050	mg/l		8260B	03/01/15	50
Dibromomethane	U	0.017	0.050	mg/l		8260B	03/01/15	50
1,2-Dichlorobenzene	U	0.017	0.050	mg/l		8260B	03/01/15	50
1,3-Dichlorobenzene	U	0.011	0.050	mg/l		8260B	03/01/15	50
1,4-Dichlorobenzene	U	0.014	0.050	mg/l		8260B	03/01/15	50
Dichlorodifluoromethane	U	0.028	0.25	mg/l		8260B	03/01/15	50
1,1-Dichloroethane	U	0.013	0.050	mg/l		8260B	03/01/15	50
1,2-Dichloroethane	U	0.018	0.050	mg/l		8260B	03/01/15	50
1,1-Dichloroethene	U	0.020	0.050	mg/l		8260B	03/01/15	50
cis-1,2-Dichloroethene	U	0.013	0.050	mg/l		8260B	03/01/15	50
trans-1,2-Dichloroethene	U	0.020	0.050	mg/l		8260B	03/01/15	50
1,2-Dichloropropane	U	0.015	0.050	mg/l		8260B	03/01/15	50
1,1-Dichloropropene	U	0.018	0.050	mg/l		8260B	03/01/15	50
1,3-Dichloropropane	U	0.018	0.050	mg/l		8260B	03/01/15	50
cis-1,3-Dichloropropene	U	0.021	0.050	mg/l		8260B	03/01/15	50
trans-1,3-Dichloropropene	U	0.021	0.050	mg/l		8260B	03/01/15	50
2,2-Dichloropropane	U	0.016	0.050	mg/l		8260B	03/01/15	50
Di-isopropyl ether	U	0.016	0.050	mg/l		8260B	03/01/15	50
Ethylbenzene	0.27	0.019	0.050	mg/l		8260B	03/01/15	50
Hexachloro-1,3-butadiene	U	0.013	0.050	mg/l		8260B	03/01/15	50
Isopropylbenzene	0.036	0.016	0.050	mg/l	J	8260B	03/01/15	50

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-03

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW3R-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 13:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.018	0.050	mg/l		8260B	03/01/15	50
2-Butanone (MEK)	U	0.20	0.50	mg/l		8260B	03/01/15	50
Methylene Chloride	U	0.050	0.25	mg/l		8260B	03/01/15	50
4-Methyl-2-pentanone (MIBK)	U	0.11	0.50	mg/l		8260B	03/01/15	50
Methyl tert-butyl ether	U	0.018	0.050	mg/l		8260B	03/01/15	50
Naphthalene	3.0	0.050	0.25	mg/l		8260B	03/01/15	50
n-Propylbenzene	U	0.017	0.050	mg/l		8260B	03/01/15	50
Styrene	U	0.015	0.050	mg/l		8260B	03/01/15	50
1,1,1,2-Tetrachloroethane	U	0.019	0.050	mg/l		8260B	03/01/15	50
1,1,2,2-Tetrachloroethane	U	0.0065	0.050	mg/l		8260B	03/01/15	50
1,1,2-Trichlorotrifluoroethane	U	0.015	0.050	mg/l		8260B	03/01/15	50
Tetrachloroethene	U	0.019	0.050	mg/l		8260B	03/01/15	50
Toluene	U	0.039	0.25	mg/l		8260B	03/01/15	50
1,2,3-Trichlorobenzene	U	0.012	0.050	mg/l		8260B	03/01/15	50
1,2,4-Trichlorobenzene	U	0.011	0.050	mg/l		8260B	03/01/15	50
1,1,1-Trichloroethane	U	0.016	0.050	mg/l		8260B	03/01/15	50
1,1,2-Trichloroethane	U	0.019	0.050	mg/l		8260B	03/01/15	50
Trichloroethene	U	0.020	0.050	mg/l		8260B	03/01/15	50
Trichlorofluoromethane	U	0.060	0.25	mg/l		8260B	03/01/15	50
1,2,3-Trichloropropane	U	0.040	0.13	mg/l		8260B	03/01/15	50
1,2,4-Trimethylbenzene	0.14	0.019	0.050	mg/l		8260B	03/01/15	50
1,2,3-Trimethylbenzene	0.057	0.016	0.050	mg/l		8260B	03/01/15	50
1,3,5-Trimethylbenzene	0.053	0.019	0.050	mg/l		8260B	03/01/15	50
Vinyl chloride	U	0.013	0.050	mg/l		8260B	03/01/15	50
Xylenes, Total	0.16	0.053	0.15	mg/l		8260B	03/01/15	50
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	03/01/15	1
Dibromofluoromethane	107.			% Rec.		8260B	03/01/15	1
4-Bromofluorobenzene	93.3			% Rec.		8260B	03/01/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.031	0.00015	0.0010	mg/l		8270C-S	03/03/15	20
Acenaphthene	0.41	0.00016	0.0010	mg/l		8270C-S	03/03/15	20
Acenaphthylene	0.095	0.00014	0.0010	mg/l		8270C-S	03/03/15	20
Benzo(a)anthracene	0.0019	0.00024	0.0010	mg/l		8270C-S	03/03/15	20
Benzo(a)pyrene	0.00086	0.00023	0.0010	mg/l	J	8270C-S	03/03/15	20
Benzo(b)fluoranthene	0.00074	0.00028	0.0010	mg/l	J	8270C-S	03/03/15	20
Benzo(g,h,i)perylene	U	0.00023	0.0010	mg/l		8270C-S	03/03/15	20
Benzo(k)fluoranthene	U	0.00027	0.0010	mg/l		8270C-S	03/03/15	20
Chrysene	0.0016	0.00022	0.0010	mg/l		8270C-S	03/03/15	20
Dibenz(a,h)anthracene	U	0.000079	0.0010	mg/l		8270C-S	03/03/15	20
Fluoranthene	0.0066	0.00031	0.0010	mg/l		8270C-S	03/03/15	20
Fluorene	0.10	0.00017	0.0010	mg/l		8270C-S	03/03/15	20

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-03

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW3R-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 13:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.00030	0.0010	mg/l		8270C-S	03/03/15	20
Naphthalene	4.6	0.0050	0.063	mg/l		8270C-S	03/05/15	250
Phenanthrene	0.093	0.00016	0.0010	mg/l		8270C-S	03/03/15	20
Pyrene	0.0089	0.00023	0.0010	mg/l		8270C-S	03/03/15	20
1-Methylnaphthalene	1.5	0.00016	0.0050	mg/l		8270C-S	03/03/15	20
2-Methylnaphthalene	1.2	0.00018	0.0050	mg/l		8270C-S	03/03/15	20
2-Chloronaphthalene	U	0.00013	0.0050	mg/l		8270C-S	03/03/15	20
Surrogate Recovery								
Nitrobenzene-d5	122.			% Rec.		8270C-S	03/03/15	20
2-Fluorobiphenyl	115.			% Rec.		8270C-S	03/03/15	20
p-Terphenyl-d14	108.			% Rec.		8270C-S	03/03/15	20

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-04

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW4-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 09:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	03/01/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	03/01/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	03/01/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	03/01/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	03/01/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	03/01/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/01/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/01/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	03/01/15	1
Chloroethane	U	0.00045	0.0050	mg/l	J4	8260B	03/01/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l	J4	8260B	03/01/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	03/01/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	03/01/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	03/01/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	03/01/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	03/01/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	03/01/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	03/01/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	03/01/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/01/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/01/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	03/01/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-04

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW4-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 09:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	03/01/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	03/01/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	03/01/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
Naphthalene	0.0026	0.0010	0.0050	mg/l	J	8260B	03/01/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	03/01/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	03/01/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	03/01/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	03/01/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	03/01/15	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	03/01/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	03/01/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	03/01/15	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	03/01/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	03/01/15	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	03/01/15	1
Dibromofluoromethane	107.			% Rec.		8260B	03/01/15	1
4-Bromofluorobenzene	91.2			% Rec.		8260B	03/01/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.000012	0.0000076	0.000050	mg/l	J	8270C-S	02/27/15	1
Acenaphthene	0.000012	0.0000082	0.000050	mg/l	J	8270C-S	02/27/15	1
Acenaphthylene	U	0.0000068	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)anthracene	U	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)pyrene	0.000013	0.000012	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(b)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(g,h,i)perylene	0.000026	0.000011	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Chrysene	U	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	02/27/15	1
Fluoranthene	U	0.000016	0.000050	mg/l		8270C-S	02/27/15	1
Fluorene	U	0.0000085	0.000050	mg/l		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-04

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW4-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 09:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000020	0.000015	0.000050	mg/l	J	8270C-S	02/27/15	1
Naphthalene	0.000098	0.000020	0.00025	mg/l	J	8270C-S	02/27/15	1
Phenanthrene	0.000010	0.0000082	0.000050	mg/l	J	8270C-S	02/27/15	1
Pyrene	0.000024	0.000012	0.000050	mg/l	J	8270C-S	02/27/15	1
1-Methylnaphthalene	0.000040	0.0000082	0.00025	mg/l	J	8270C-S	02/27/15	1
2-Methylnaphthalene	0.000031	0.0000090	0.00025	mg/l	J	8270C-S	02/27/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	103.			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	99.8			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	101.			% Rec.		8270C-S	02/27/15	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-05

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW5-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 10:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	03/01/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	03/01/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	03/01/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	03/01/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	03/01/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	03/01/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/01/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/01/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	03/01/15	1
Chloroethane	U	0.00045	0.0050	mg/l	J4	8260B	03/01/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l	J4	8260B	03/01/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	03/01/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	03/01/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	03/01/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	03/01/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	03/01/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	03/01/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	03/01/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	03/01/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/01/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/01/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	03/01/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-05

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW5-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 10:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	03/01/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	03/01/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	03/01/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
Naphthalene	0.0025	0.0010	0.0050	mg/l	J	8260B	03/01/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	03/01/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	03/01/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	03/01/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	03/01/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	03/01/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	03/01/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	03/01/15	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	03/01/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	03/01/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	03/01/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	03/01/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	03/01/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	03/01/15	1
1,2,4-Trimethylbenzene	0.0011	0.00037	0.0010	mg/l		8260B	03/01/15	1
1,2,3-Trimethylbenzene	0.00053	0.00032	0.0010	mg/l	J	8260B	03/01/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	03/01/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	03/01/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	03/01/15	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	03/01/15	1
Dibromofluoromethane	108.			% Rec.		8260B	03/01/15	1
4-Bromofluorobenzene	93.1			% Rec.		8260B	03/01/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0083	0.0000076	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthene	0.016	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthylene	0.026	0.0000068	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)anthracene	0.0030	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)pyrene	0.0024	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(b)fluoranthene	0.0018	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(g,h,i)perylene	0.00089	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(k)fluoranthene	0.00043	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Chrysene	0.0027	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Dibenz(a,h)anthracene	0.00023	0.0000040	0.000050	mg/l		8270C-S	02/27/15	1
Fluoranthene	0.0075	0.000016	0.000050	mg/l		8270C-S	02/27/15	1
Fluorene	0.013	0.0000085	0.000050	mg/l		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

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USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-05

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW5-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 10:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.00074	0.000015	0.000050	mg/l		8270C-S	02/27/15	1
Naphthalene	0.0019	0.000020	0.00025	mg/l		8270C-S	02/27/15	1
Phenanthrene	0.034	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Pyrene	0.014	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
1-Methylnaphthalene	0.044	0.0000082	0.00025	mg/l		8270C-S	02/27/15	1
2-Methylnaphthalene	0.0043	0.0000090	0.00025	mg/l		8270C-S	02/27/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	93.5			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	110.			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	95.1			% Rec.		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-06

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW6-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 13:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/l		8260B	03/01/15	5
Acrolein	U	0.044	0.25	mg/l		8260B	03/01/15	5
Acrylonitrile	U	0.0094	0.050	mg/l		8260B	03/01/15	5
Benzene	U	0.0016	0.0050	mg/l		8260B	03/01/15	5
Bromobenzene	U	0.0018	0.0050	mg/l		8260B	03/01/15	5
Bromodichloromethane	U	0.0019	0.0050	mg/l		8260B	03/01/15	5
Bromoform	U	0.0023	0.0050	mg/l		8260B	03/01/15	5
Bromomethane	U	0.0043	0.025	mg/l		8260B	03/01/15	5
n-Butylbenzene	U	0.0018	0.0050	mg/l		8260B	03/01/15	5
sec-Butylbenzene	U	0.0018	0.0050	mg/l		8260B	03/01/15	5
tert-Butylbenzene	U	0.0020	0.0050	mg/l		8260B	03/01/15	5
Carbon tetrachloride	U	0.0019	0.0050	mg/l		8260B	03/01/15	5
Chlorobenzene	U	0.0017	0.0050	mg/l		8260B	03/01/15	5
Chlorodibromomethane	U	0.0016	0.0050	mg/l		8260B	03/01/15	5
Chloroethane	U	0.0023	0.025	mg/l	J4	8260B	03/01/15	5
2-Chloroethyl vinyl ether	U	0.015	0.25	mg/l	J4	8260B	03/01/15	5
Chloroform	U	0.0016	0.025	mg/l		8260B	03/01/15	5
Chloromethane	U	0.0014	0.013	mg/l		8260B	03/01/15	5
2-Chlorotoluene	U	0.0019	0.0050	mg/l		8260B	03/01/15	5
4-Chlorotoluene	U	0.0018	0.0050	mg/l		8260B	03/01/15	5
1,2-Dibromo-3-Chloropropane	U	0.0066	0.025	mg/l		8260B	03/01/15	5
1,2-Dibromoethane	U	0.0019	0.0050	mg/l		8260B	03/01/15	5
Dibromomethane	U	0.0017	0.0050	mg/l		8260B	03/01/15	5
1,2-Dichlorobenzene	U	0.0017	0.0050	mg/l		8260B	03/01/15	5
1,3-Dichlorobenzene	U	0.0011	0.0050	mg/l		8260B	03/01/15	5
1,4-Dichlorobenzene	U	0.0014	0.0050	mg/l		8260B	03/01/15	5
Dichlorodifluoromethane	U	0.0028	0.025	mg/l		8260B	03/01/15	5
1,1-Dichloroethane	U	0.0013	0.0050	mg/l		8260B	03/01/15	5
1,2-Dichloroethane	U	0.0018	0.0050	mg/l		8260B	03/01/15	5
1,1-Dichloroethene	U	0.0020	0.0050	mg/l		8260B	03/01/15	5
cis-1,2-Dichloroethene	U	0.0013	0.0050	mg/l		8260B	03/01/15	5
trans-1,2-Dichloroethene	U	0.0020	0.0050	mg/l		8260B	03/01/15	5
1,2-Dichloropropane	U	0.0015	0.0050	mg/l		8260B	03/01/15	5
1,1-Dichloropropene	U	0.0018	0.0050	mg/l		8260B	03/01/15	5
1,3-Dichloropropane	U	0.0018	0.0050	mg/l		8260B	03/01/15	5
cis-1,3-Dichloropropene	U	0.0021	0.0050	mg/l		8260B	03/01/15	5
trans-1,3-Dichloropropene	U	0.0021	0.0050	mg/l		8260B	03/01/15	5
2,2-Dichloropropane	U	0.0016	0.0050	mg/l		8260B	03/01/15	5
Di-isopropyl ether	U	0.0016	0.0050	mg/l		8260B	03/01/15	5
Ethylbenzene	0.011	0.0019	0.0050	mg/l		8260B	03/01/15	5
Hexachloro-1,3-butadiene	U	0.0013	0.0050	mg/l		8260B	03/01/15	5
Isopropylbenzene	0.0026	0.0016	0.0050	mg/l	J	8260B	03/01/15	5

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REPORT OF ANALYSIS

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USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-06

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW6-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 13:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.0018	0.0050	mg/l		8260B	03/01/15	5
2-Butanone (MEK)	U	0.020	0.050	mg/l		8260B	03/01/15	5
Methylene Chloride	U	0.0050	0.025	mg/l		8260B	03/01/15	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.050	mg/l		8260B	03/01/15	5
Methyl tert-butyl ether	U	0.0018	0.0050	mg/l		8260B	03/01/15	5
Naphthalene	0.21	0.0050	0.025	mg/l		8260B	03/01/15	5
n-Propylbenzene	U	0.0017	0.0050	mg/l		8260B	03/01/15	5
Styrene	U	0.0015	0.0050	mg/l		8260B	03/01/15	5
1,1,1,2-Tetrachloroethane	U	0.0019	0.0050	mg/l		8260B	03/01/15	5
1,1,2,2-Tetrachloroethane	U	0.00065	0.0050	mg/l		8260B	03/01/15	5
1,1,2-Trichlorotrifluoroethane	U	0.0015	0.0050	mg/l		8260B	03/01/15	5
Tetrachloroethene	U	0.0019	0.0050	mg/l		8260B	03/01/15	5
Toluene	U	0.0039	0.025	mg/l		8260B	03/01/15	5
1,2,3-Trichlorobenzene	U	0.0012	0.0050	mg/l		8260B	03/01/15	5
1,2,4-Trichlorobenzene	U	0.0011	0.0050	mg/l		8260B	03/01/15	5
1,1,1-Trichloroethane	U	0.0016	0.0050	mg/l		8260B	03/01/15	5
1,1,2-Trichloroethane	U	0.0019	0.0050	mg/l		8260B	03/01/15	5
Trichloroethene	U	0.0020	0.0050	mg/l		8260B	03/01/15	5
Trichlorofluoromethane	U	0.0060	0.025	mg/l		8260B	03/01/15	5
1,2,3-Trichloropropane	U	0.0040	0.013	mg/l		8260B	03/01/15	5
1,2,4-Trimethylbenzene	0.013	0.0019	0.0050	mg/l		8260B	03/01/15	5
1,2,3-Trimethylbenzene	0.0047	0.0016	0.0050	mg/l	J	8260B	03/01/15	5
1,3,5-Trimethylbenzene	0.0039	0.0019	0.0050	mg/l	J	8260B	03/01/15	5
Vinyl chloride	U	0.0013	0.0050	mg/l		8260B	03/01/15	5
Xylenes, Total	0.0096	0.0053	0.015	mg/l	J	8260B	03/01/15	5
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	03/01/15	1
Dibromofluoromethane	104.			% Rec.		8260B	03/01/15	1
4-Bromofluorobenzene	92.1			% Rec.		8260B	03/01/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.018	0.0000076	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthene	0.081	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthylene	0.061	0.0000068	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)anthracene	0.00077	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)pyrene	0.00029	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(b)fluoranthene	0.00022	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(g,h,i)perylene	0.00011	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(k)fluoranthene	0.000064	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Chrysene	0.00067	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	02/27/15	1
Fluoranthene	0.0097	0.000016	0.000050	mg/l		8270C-S	02/27/15	1
Fluorene	0.053	0.0000085	0.000050	mg/l		8270C-S	02/27/15	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-06

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW6-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 13:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000088	0.000015	0.000050	mg/l		8270C-S	02/27/15	1
Naphthalene	0.27	0.00040	0.0050	mg/l		8270C-S	03/02/15	20
Phenanthrene	0.10	0.00016	0.0010	mg/l		8270C-S	03/02/15	20
Pyrene	0.014	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
1-Methylnaphthalene	0.20	0.00016	0.0050	mg/l		8270C-S	03/02/15	20
2-Methylnaphthalene	0.020	0.0000090	0.00025	mg/l		8270C-S	02/27/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	102.			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	103.			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	99.3			% Rec.		8270C-S	02/27/15	1

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MDL = Minimum Detection Limit = LOD = TRRP SDL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-07

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW7-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.10	0.50	mg/l		8260B	03/03/15	10
Acrolein	U	0.089	0.50	mg/l		8260B	03/03/15	10
Acrylonitrile	U	0.019	0.10	mg/l		8260B	03/03/15	10
Benzene	0.085	0.0033	0.010	mg/l		8260B	03/03/15	10
Bromobenzene	U	0.0035	0.010	mg/l		8260B	03/03/15	10
Bromodichloromethane	U	0.0038	0.010	mg/l		8260B	03/03/15	10
Bromoform	U	0.0047	0.010	mg/l		8260B	03/03/15	10
Bromomethane	U	0.0087	0.050	mg/l		8260B	03/03/15	10
n-Butylbenzene	U	0.0036	0.010	mg/l		8260B	03/03/15	10
sec-Butylbenzene	U	0.0036	0.010	mg/l		8260B	03/03/15	10
tert-Butylbenzene	U	0.0040	0.010	mg/l		8260B	03/03/15	10
Carbon tetrachloride	U	0.0038	0.010	mg/l		8260B	03/03/15	10
Chlorobenzene	U	0.0035	0.010	mg/l		8260B	03/03/15	10
Chlorodibromomethane	U	0.0033	0.010	mg/l		8260B	03/03/15	10
Chloroethane	U	0.0045	0.050	mg/l		8260B	03/03/15	10
2-Chloroethyl vinyl ether	U	0.030	0.50	mg/l	J3	8260B	03/03/15	10
Chloroform	U	0.0032	0.050	mg/l		8260B	03/03/15	10
Chloromethane	U	0.0028	0.025	mg/l		8260B	03/03/15	10
2-Chlorotoluene	U	0.0038	0.010	mg/l		8260B	03/03/15	10
4-Chlorotoluene	U	0.0035	0.010	mg/l		8260B	03/03/15	10
1,2-Dibromo-3-Chloropropane	U	0.013	0.050	mg/l		8260B	03/03/15	10
1,2-Dibromoethane	U	0.0038	0.010	mg/l		8260B	03/03/15	10
Dibromomethane	U	0.0035	0.010	mg/l		8260B	03/03/15	10
1,2-Dichlorobenzene	U	0.0035	0.010	mg/l		8260B	03/03/15	10
1,3-Dichlorobenzene	U	0.0022	0.010	mg/l		8260B	03/03/15	10
1,4-Dichlorobenzene	U	0.0027	0.010	mg/l		8260B	03/03/15	10
Dichlorodifluoromethane	U	0.0055	0.050	mg/l		8260B	03/03/15	10
1,1-Dichloroethane	U	0.0026	0.010	mg/l		8260B	03/03/15	10
1,2-Dichloroethane	U	0.0036	0.010	mg/l		8260B	03/03/15	10
1,1-Dichloroethene	U	0.0040	0.010	mg/l		8260B	03/03/15	10
cis-1,2-Dichloroethene	U	0.0026	0.010	mg/l		8260B	03/03/15	10
trans-1,2-Dichloroethene	U	0.0040	0.010	mg/l		8260B	03/03/15	10
1,2-Dichloropropane	U	0.0031	0.010	mg/l		8260B	03/03/15	10
1,1-Dichloropropene	U	0.0035	0.010	mg/l		8260B	03/03/15	10
1,3-Dichloropropane	U	0.0037	0.010	mg/l		8260B	03/03/15	10
cis-1,3-Dichloropropene	U	0.0042	0.010	mg/l		8260B	03/03/15	10
trans-1,3-Dichloropropene	U	0.0042	0.010	mg/l		8260B	03/03/15	10
2,2-Dichloropropane	U	0.0032	0.010	mg/l		8260B	03/03/15	10
Di-isopropyl ether	U	0.0032	0.010	mg/l		8260B	03/03/15	10
Ethylbenzene	0.090	0.0038	0.010	mg/l		8260B	03/03/15	10
Hexachloro-1,3-butadiene	U	0.0026	0.010	mg/l		8260B	03/03/15	10
Isopropylbenzene	0.019	0.0033	0.010	mg/l		8260B	03/03/15	10

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-07

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW7-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.0035	0.010	mg/l		8260B	03/03/15	10
2-Butanone (MEK)	U	0.039	0.10	mg/l		8260B	03/03/15	10
Methylene Chloride	U	0.010	0.050	mg/l		8260B	03/03/15	10
4-Methyl-2-pentanone (MIBK)	U	0.021	0.10	mg/l		8260B	03/03/15	10
Methyl tert-butyl ether	U	0.0037	0.010	mg/l		8260B	03/03/15	10
Naphthalene	0.36	0.010	0.050	mg/l		8260B	03/03/15	10
n-Propylbenzene	0.0037	0.0035	0.010	mg/l	J	8260B	03/03/15	10
Styrene	U	0.0031	0.010	mg/l		8260B	03/03/15	10
1,1,1,2-Tetrachloroethane	U	0.0038	0.010	mg/l		8260B	03/03/15	10
1,1,2,2-Tetrachloroethane	U	0.0013	0.010	mg/l		8260B	03/03/15	10
1,1,2-Trichlorotrifluoroethane	U	0.0030	0.010	mg/l		8260B	03/03/15	10
Tetrachloroethene	U	0.0037	0.010	mg/l		8260B	03/03/15	10
Toluene	U	0.0078	0.050	mg/l		8260B	03/03/15	10
1,2,3-Trichlorobenzene	U	0.0023	0.010	mg/l		8260B	03/03/15	10
1,2,4-Trichlorobenzene	U	0.0021	0.010	mg/l		8260B	03/03/15	10
1,1,1-Trichloroethane	U	0.0032	0.010	mg/l		8260B	03/03/15	10
1,1,2-Trichloroethane	U	0.0038	0.010	mg/l		8260B	03/03/15	10
Trichloroethene	U	0.0040	0.010	mg/l		8260B	03/03/15	10
Trichlorofluoromethane	U	0.012	0.050	mg/l		8260B	03/03/15	10
1,2,3-Trichloropropane	U	0.0081	0.025	mg/l		8260B	03/03/15	10
1,2,4-Trimethylbenzene	0.039	0.0037	0.010	mg/l		8260B	03/03/15	10
1,2,3-Trimethylbenzene	0.032	0.0032	0.010	mg/l		8260B	03/03/15	10
1,3,5-Trimethylbenzene	0.0061	0.0039	0.010	mg/l	J	8260B	03/03/15	10
Vinyl chloride	U	0.0026	0.010	mg/l		8260B	03/03/15	10
Xylenes, Total	0.075	0.011	0.030	mg/l		8260B	03/03/15	10
Surrogate Recovery								
Toluene-d8	99.3			% Rec.		8260B	03/03/15	1
Dibromofluoromethane	98.8			% Rec.		8260B	03/03/15	1
4-Bromofluorobenzene	103.			% Rec.		8260B	03/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.011	0.0000076	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthene	0.15	0.00016	0.0010	mg/l		8270C-S	03/02/15	20
Acenaphthylene	0.061	0.0000068	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)anthracene	0.000091	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)pyrene	0.000017	0.000012	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(b)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(g,h,i)perylene	0.000012	0.000011	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Chrysene	0.000070	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	02/27/15	1
Fluoranthene	0.0032	0.000016	0.000050	mg/l		8270C-S	02/27/15	1
Fluorene	0.034	0.0000085	0.000050	mg/l		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-07

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW7-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000015	0.000050	mg/l		8270C-S	02/27/15	1
Naphthalene	0.23	0.00040	0.0050	mg/l		8270C-S	03/02/15	20
Phenanthrene	0.052	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Pyrene	0.0041	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
1-Methylnaphthalene	0.54	0.00016	0.0050	mg/l		8270C-S	03/02/15	20
2-Methylnaphthalene	0.0027	0.0000090	0.00025	mg/l		8270C-S	02/27/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	105.			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	92.8			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	95.9			% Rec.		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-08

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW8-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 14:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	03/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	03/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	03/03/15	1
Benzene	0.0035	0.00033	0.0010	mg/l		8260B	03/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	03/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	03/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	03/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	03/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l	J3	8260B	03/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	03/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	03/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	03/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	03/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	03/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	03/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	03/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
Ethylbenzene	0.00067	0.00038	0.0010	mg/l	J	8260B	03/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
Isopropylbenzene	0.00078	0.00033	0.0010	mg/l	J	8260B	03/03/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-08

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW8-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 14:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	03/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	03/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	03/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
Naphthalene	0.079	0.0010	0.0050	mg/l		8260B	03/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	03/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	03/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	03/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	03/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	03/03/15	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	03/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	03/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	03/03/15	1
1,2,4-Trimethylbenzene	0.0034	0.00037	0.0010	mg/l		8260B	03/03/15	1
1,2,3-Trimethylbenzene	0.0019	0.00032	0.0010	mg/l		8260B	03/03/15	1
1,3,5-Trimethylbenzene	0.0012	0.00039	0.0010	mg/l		8260B	03/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
Xylenes, Total	0.0045	0.0011	0.0030	mg/l		8260B	03/03/15	1
Surrogate Recovery								
Toluene-d8	99.9			% Rec.		8260B	03/03/15	1
Dibromofluoromethane	101.			% Rec.		8260B	03/03/15	1
4-Bromofluorobenzene	102.			% Rec.		8260B	03/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.00035	0.0000076	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthene	0.013	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthylene	0.0013	0.0000068	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)anthracene	0.000044	0.000012	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(a)pyrene	0.000016	0.000012	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(b)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(g,h,i)perylene	U	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Chrysene	0.000030	0.000011	0.000050	mg/l	J	8270C-S	02/27/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	02/27/15	1
Fluoranthene	0.00016	0.000016	0.000050	mg/l		8270C-S	02/27/15	1
Fluorene	0.00064	0.0000085	0.000050	mg/l		8270C-S	02/27/15	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-08

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW8-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 14:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000015	0.000050	mg/l		8270C-S	02/27/15	1
Naphthalene	0.067	0.000020	0.00025	mg/l		8270C-S	02/27/15	1
Phenanthrene	0.0012	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Pyrene	0.00022	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
1-Methylnaphthalene	0.035	0.0000082	0.00025	mg/l		8270C-S	02/27/15	1
2-Methylnaphthalene	0.026	0.0000090	0.00025	mg/l		8270C-S	02/27/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	98.2			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	97.5			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	100.			% Rec.		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-09

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW10-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 11:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	03/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	03/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	03/03/15	1
Benzene	0.012	0.00033	0.0010	mg/l		8260B	03/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	03/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	03/03/15	1
n-Butylbenzene	0.00059	0.00036	0.0010	mg/l	J	8260B	03/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	03/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	03/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l	J6	8260B	03/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	03/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	03/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	03/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	03/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	03/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	03/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	03/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
Ethylbenzene	0.031	0.00038	0.0010	mg/l	J6	8260B	03/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
Isopropylbenzene	0.0093	0.00033	0.0010	mg/l		8260B	03/03/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-09

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW10-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 11:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	03/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	03/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	03/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
Naphthalene	0.45	0.010	0.050	mg/l		8260B	03/04/15	10
n-Propylbenzene	0.0019	0.00035	0.0010	mg/l		8260B	03/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	03/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	03/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	03/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
Toluene	0.0035	0.00078	0.0050	mg/l	J	8260B	03/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	03/03/15	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	03/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	03/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	03/03/15	1
1,2,4-Trimethylbenzene	0.024	0.00037	0.0010	mg/l		8260B	03/03/15	1
1,2,3-Trimethylbenzene	0.018	0.00032	0.0010	mg/l		8260B	03/03/15	1
1,3,5-Trimethylbenzene	0.0055	0.00039	0.0010	mg/l		8260B	03/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
Xylenes, Total	0.039	0.0011	0.0030	mg/l	J6	8260B	03/03/15	1
Surrogate Recovery								
Toluene-d8	99.5			% Rec.		8260B	03/03/15	1
Dibromofluoromethane	102.			% Rec.		8260B	03/03/15	1
4-Bromofluorobenzene	101.			% Rec.		8260B	03/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.012	0.0000076	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthene	0.17	0.000082	0.00050	mg/l	V	8270C-S	03/03/15	10
Acenaphthylene	0.055	0.0000068	0.000050	mg/l	V	8270C-S	02/27/15	1
Benzo(a)anthracene	0.00013	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)pyrene	U	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(b)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(g,h,i)perylene	U	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Chrysene	0.000095	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	02/27/15	1
Fluoranthene	0.0037	0.000016	0.000050	mg/l		8270C-S	02/27/15	1
Fluorene	0.0087	0.0000085	0.000050	mg/l		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-09

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW10-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 11:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000015	0.000050	mg/l		8270C-S	02/27/15	1
Naphthalene	0.38	0.00020	0.0025	mg/l	V	8270C-S	03/03/15	10
Phenanthrene	0.058	0.0000082	0.000050	mg/l	V	8270C-S	02/27/15	1
Pyrene	0.0054	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
1-Methylnaphthalene	0.56	0.000082	0.0025	mg/l	V	8270C-S	03/03/15	10
2-Methylnaphthalene	0.026	0.0000090	0.00025	mg/l	V	8270C-S	02/27/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	95.7			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	92.2			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	95.9			% Rec.		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-10

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW11-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 12:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	03/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	03/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	03/03/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	03/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	03/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	03/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	03/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	03/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l	J3	8260B	03/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	03/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	03/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	03/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	03/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	03/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	03/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	03/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
Isopropylbenzene	0.00038	0.00033	0.0010	mg/l	J	8260B	03/03/15	1

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Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-10

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW11-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 12:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	03/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	03/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	03/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
Naphthalene	0.0052	0.0010	0.0050	mg/l		8260B	03/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	03/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	03/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	03/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	03/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	03/03/15	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	03/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	03/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	03/03/15	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
1,2,3-Trimethylbenzene	0.0010	0.00032	0.0010	mg/l		8260B	03/03/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	03/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
Xylenes, Total	0.0036	0.0011	0.0030	mg/l		8260B	03/03/15	1
Surrogate Recovery								
Toluene-d8	98.9			% Rec.		8260B	03/03/15	1
Dibromofluoromethane	102.			% Rec.		8260B	03/03/15	1
4-Bromofluorobenzene	102.			% Rec.		8260B	03/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0067	0.0000076	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthene	0.0037	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthylene	0.0054	0.0000068	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)anthracene	0.00056	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)pyrene	0.00020	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(b)fluoranthene	0.00016	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(g,h,i)perylene	0.000058	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(k)fluoranthene	0.000042	0.000014	0.000050	mg/l	J	8270C-S	02/27/15	1
Chrysene	0.00048	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Dibenz(a,h)anthracene	0.000019	0.0000040	0.000050	mg/l	J	8270C-S	02/27/15	1
Fluoranthene	0.0045	0.000016	0.000050	mg/l		8270C-S	02/27/15	1
Fluorene	0.0017	0.0000085	0.000050	mg/l		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-10

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW11-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 12:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000046	0.000015	0.000050	mg/l	J	8270C-S	02/27/15	1
Naphthalene	0.0019	0.000020	0.00025	mg/l		8270C-S	02/27/15	1
Phenanthrene	0.011	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Pyrene	0.0070	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
1-Methylnaphthalene	0.0034	0.0000082	0.00025	mg/l		8270C-S	02/27/15	1
2-Methylnaphthalene	0.000094	0.0000090	0.00025	mg/l	J	8270C-S	02/27/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	101.			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	95.8			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	96.9			% Rec.		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-11

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW12-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 14:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/l		8260B	03/04/15	5
Acrolein	U	0.044	0.25	mg/l		8260B	03/04/15	5
Acrylonitrile	U	0.0094	0.050	mg/l		8260B	03/04/15	5
Benzene	0.0019	0.0016	0.0050	mg/l	J	8260B	03/04/15	5
Bromobenzene	U	0.0018	0.0050	mg/l		8260B	03/04/15	5
Bromodichloromethane	U	0.0019	0.0050	mg/l		8260B	03/04/15	5
Bromoform	U	0.0023	0.0050	mg/l		8260B	03/04/15	5
Bromomethane	U	0.0043	0.025	mg/l		8260B	03/04/15	5
n-Butylbenzene	U	0.0018	0.0050	mg/l		8260B	03/04/15	5
sec-Butylbenzene	U	0.0018	0.0050	mg/l		8260B	03/04/15	5
tert-Butylbenzene	U	0.0020	0.0050	mg/l		8260B	03/04/15	5
Carbon tetrachloride	U	0.0019	0.0050	mg/l		8260B	03/04/15	5
Chlorobenzene	U	0.0017	0.0050	mg/l		8260B	03/04/15	5
Chlorodibromomethane	U	0.0016	0.0050	mg/l		8260B	03/04/15	5
Chloroethane	U	0.0023	0.025	mg/l		8260B	03/04/15	5
2-Chloroethyl vinyl ether	U	0.015	0.25	mg/l		8260B	03/04/15	5
Chloroform	U	0.0016	0.025	mg/l		8260B	03/04/15	5
Chloromethane	U	0.0014	0.013	mg/l		8260B	03/04/15	5
2-Chlorotoluene	U	0.0019	0.0050	mg/l		8260B	03/04/15	5
4-Chlorotoluene	U	0.0018	0.0050	mg/l		8260B	03/04/15	5
1,2-Dibromo-3-Chloropropane	U	0.0066	0.025	mg/l		8260B	03/04/15	5
1,2-Dibromoethane	U	0.0019	0.0050	mg/l		8260B	03/04/15	5
Dibromomethane	U	0.0017	0.0050	mg/l		8260B	03/04/15	5
1,2-Dichlorobenzene	U	0.0017	0.0050	mg/l		8260B	03/04/15	5
1,3-Dichlorobenzene	U	0.0011	0.0050	mg/l		8260B	03/04/15	5
1,4-Dichlorobenzene	U	0.0014	0.0050	mg/l		8260B	03/04/15	5
Dichlorodifluoromethane	U	0.0028	0.025	mg/l		8260B	03/04/15	5
1,1-Dichloroethane	U	0.0013	0.0050	mg/l		8260B	03/04/15	5
1,2-Dichloroethane	U	0.0018	0.0050	mg/l		8260B	03/04/15	5
1,1-Dichloroethene	U	0.0020	0.0050	mg/l		8260B	03/04/15	5
cis-1,2-Dichloroethene	U	0.0013	0.0050	mg/l		8260B	03/04/15	5
trans-1,2-Dichloroethene	U	0.0020	0.0050	mg/l		8260B	03/04/15	5
1,2-Dichloropropane	U	0.0015	0.0050	mg/l		8260B	03/04/15	5
1,1-Dichloropropene	U	0.0018	0.0050	mg/l		8260B	03/04/15	5
1,3-Dichloropropane	U	0.0018	0.0050	mg/l		8260B	03/04/15	5
cis-1,3-Dichloropropene	U	0.0021	0.0050	mg/l		8260B	03/04/15	5
trans-1,3-Dichloropropene	U	0.0021	0.0050	mg/l		8260B	03/04/15	5
2,2-Dichloropropane	U	0.0016	0.0050	mg/l		8260B	03/04/15	5
Di-isopropyl ether	U	0.0016	0.0050	mg/l		8260B	03/04/15	5
Ethylbenzene	U	0.0019	0.0050	mg/l		8260B	03/04/15	5
Hexachloro-1,3-butadiene	U	0.0013	0.0050	mg/l		8260B	03/04/15	5
Isopropylbenzene	U	0.0016	0.0050	mg/l		8260B	03/04/15	5

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-11

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW12-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 14:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.0040	0.0018	0.0050	mg/l	J	8260B	03/04/15	5
2-Butanone (MEK)	U	0.020	0.050	mg/l		8260B	03/04/15	5
Methylene Chloride	U	0.0050	0.025	mg/l		8260B	03/04/15	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.050	mg/l		8260B	03/04/15	5
Methyl tert-butyl ether	U	0.0018	0.0050	mg/l		8260B	03/04/15	5
Naphthalene	0.16	0.0050	0.025	mg/l	J4	8260B	03/04/15	5
n-Propylbenzene	U	0.0017	0.0050	mg/l		8260B	03/04/15	5
Styrene	U	0.0015	0.0050	mg/l		8260B	03/04/15	5
1,1,1,2-Tetrachloroethane	U	0.0019	0.0050	mg/l		8260B	03/04/15	5
1,1,2,2-Tetrachloroethane	U	0.00065	0.0050	mg/l		8260B	03/04/15	5
1,1,2-Trichlorotrifluoroethane	U	0.0015	0.0050	mg/l		8260B	03/04/15	5
Tetrachloroethene	U	0.0019	0.0050	mg/l		8260B	03/04/15	5
Toluene	U	0.0039	0.025	mg/l		8260B	03/04/15	5
1,2,3-Trichlorobenzene	U	0.0012	0.0050	mg/l		8260B	03/04/15	5
1,2,4-Trichlorobenzene	U	0.0011	0.0050	mg/l		8260B	03/04/15	5
1,1,1-Trichloroethane	U	0.0016	0.0050	mg/l		8260B	03/04/15	5
1,1,2-Trichloroethane	U	0.0019	0.0050	mg/l		8260B	03/04/15	5
Trichloroethene	U	0.0020	0.0050	mg/l		8260B	03/04/15	5
Trichlorofluoromethane	U	0.0060	0.025	mg/l		8260B	03/04/15	5
1,2,3-Trichloropropane	U	0.0040	0.013	mg/l		8260B	03/04/15	5
1,2,4-Trimethylbenzene	0.014	0.0019	0.0050	mg/l		8260B	03/04/15	5
1,2,3-Trimethylbenzene	0.0070	0.0016	0.0050	mg/l		8260B	03/04/15	5
1,3,5-Trimethylbenzene	0.0081	0.0019	0.0050	mg/l		8260B	03/04/15	5
Vinyl chloride	U	0.0013	0.0050	mg/l		8260B	03/04/15	5
Xylenes, Total	0.014	0.0053	0.015	mg/l	J	8260B	03/04/15	5
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	03/04/15	1
Dibromofluoromethane	97.0			% Rec.		8260B	03/04/15	1
4-Bromofluorobenzene	100.			% Rec.		8260B	03/04/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0062	0.0000076	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthene	0.092	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthylene	0.010	0.0000068	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)anthracene	0.00027	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)pyrene	0.000078	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(b)fluoranthene	0.000062	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(g,h,i)perylene	0.000024	0.000011	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(k)fluoranthene	0.000028	0.000014	0.000050	mg/l	J	8270C-S	02/27/15	1
Chrysene	0.00025	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Dibenz(a,h)anthracene	0.000011	0.0000040	0.000050	mg/l	J	8270C-S	02/27/15	1
Fluoranthene	0.0028	0.000016	0.000050	mg/l		8270C-S	02/27/15	1
Fluorene	0.023	0.0000085	0.000050	mg/l		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-11

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW12-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 14:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000021	0.000015	0.000050	mg/l	J	8270C-S	02/27/15	1
Naphthalene	0.0050	0.000020	0.00025	mg/l		8270C-S	02/27/15	1
Phenanthrene	0.010	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Pyrene	0.0035	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
1-Methylnaphthalene	0.12	0.00016	0.0050	mg/l		8270C-S	03/02/15	20
2-Methylnaphthalene	0.032	0.0000090	0.00025	mg/l		8270C-S	02/27/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	107.			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	96.0			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	97.2			% Rec.		8270C-S	02/27/15	1

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MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-12

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW13-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 11:25

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	03/04/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	03/04/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	03/04/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	03/04/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	03/04/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	03/04/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/04/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/04/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	03/04/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	03/04/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	03/04/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	03/04/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	03/04/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	03/04/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	03/04/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	03/04/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	03/04/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	03/04/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	03/04/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	03/04/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/04/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	03/04/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/04/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	03/04/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	03/04/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/04/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/04/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	03/04/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	03/04/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	03/04/15	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	03/04/15	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-12

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW13-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 11:25

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	03/04/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	03/04/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	03/04/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	03/04/15	1
Naphthalene	0.0014	0.0010	0.0050	mg/l	JJ4	8260B	03/04/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	03/04/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	03/04/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	03/04/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	03/04/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	03/04/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	03/04/15	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	03/04/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	03/04/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	03/04/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	03/04/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	03/04/15	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	03/04/15	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	03/04/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	03/04/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	03/04/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	03/04/15	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	03/04/15	1
Dibromofluoromethane	98.7			% Rec.		8260B	03/04/15	1
4-Bromofluorobenzene	99.7			% Rec.		8260B	03/04/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.00074	0.0000076	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthene	0.00038	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthylene	0.00064	0.0000068	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)anthracene	0.000071	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)pyrene	0.000019	0.000012	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(b)fluoranthene	0.000017	0.000014	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(g,h,i)perylene	U	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Chrysene	0.000071	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	02/27/15	1
Fluoranthene	0.00058	0.000016	0.000050	mg/l		8270C-S	02/27/15	1
Fluorene	0.00039	0.0000085	0.000050	mg/l		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-12

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW13-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 11:25

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000015	0.000050	mg/l		8270C-S	02/27/15	1
Naphthalene	0.00080	0.000020	0.00025	mg/l		8270C-S	02/27/15	1
Phenanthrene	0.0016	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Pyrene	0.00099	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
1-Methylnaphthalene	0.0018	0.0000082	0.00025	mg/l		8270C-S	02/27/15	1
2-Methylnaphthalene	0.000020	0.0000090	0.00025	mg/l	J	8270C-S	02/27/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	99.8			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	95.7			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	98.5			% Rec.		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-13

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW14-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 09:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	03/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	03/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	03/03/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	03/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	03/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	03/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	03/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	03/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l	J3	8260B	03/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	03/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	03/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	03/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	03/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	03/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	03/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	03/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
Ethylbenzene	0.00041	0.00038	0.0010	mg/l	J	8260B	03/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
Isopropylbenzene	0.00083	0.00033	0.0010	mg/l	J	8260B	03/03/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-13

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW14-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 09:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	03/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	03/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	03/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
Naphthalene	0.11	0.0010	0.0050	mg/l		8260B	03/03/15	1
n-Propylbenzene	0.00047	0.00035	0.0010	mg/l	J	8260B	03/03/15	1
Styrene	0.00034	0.00031	0.0010	mg/l	J	8260B	03/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	03/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	03/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	03/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	03/03/15	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	03/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	03/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	03/03/15	1
1,2,4-Trimethylbenzene	0.0040	0.00037	0.0010	mg/l		8260B	03/03/15	1
1,2,3-Trimethylbenzene	0.0014	0.00032	0.0010	mg/l		8260B	03/03/15	1
1,3,5-Trimethylbenzene	0.00065	0.00039	0.0010	mg/l	J	8260B	03/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
Xylenes, Total	0.0021	0.0011	0.0030	mg/l	J	8260B	03/03/15	1
Surrogate Recovery								
Toluene-d8	98.5			% Rec.		8260B	03/03/15	1
Dibromofluoromethane	101.			% Rec.		8260B	03/03/15	1
4-Bromofluorobenzene	99.8			% Rec.		8260B	03/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0034	0.0000076	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthene	0.0064	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthylene	0.026	0.0000068	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)anthracene	0.000042	0.000012	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(a)pyrene	0.000012	0.000012	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(b)fluoranthene	0.000017	0.000014	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(g,h,i)perylene	0.000015	0.000011	0.000050	mg/l	J	8270C-S	02/27/15	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Chrysene	0.000042	0.000011	0.000050	mg/l	J	8270C-S	02/27/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	02/27/15	1
Fluoranthene	0.00081	0.000016	0.000050	mg/l		8270C-S	02/27/15	1
Fluorene	0.0092	0.0000085	0.000050	mg/l		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-13

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW14-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 09:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000015	0.000050	mg/l		8270C-S	02/27/15	1
Naphthalene	0.055	0.000020	0.00025	mg/l		8270C-S	02/27/15	1
Phenanthrene	0.017	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Pyrene	0.00091	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
1-Methylnaphthalene	0.048	0.0000082	0.00025	mg/l		8270C-S	02/27/15	1
2-Methylnaphthalene	0.036	0.0000090	0.00025	mg/l		8270C-S	02/27/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	69.8			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	95.9			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	100.			% Rec.		8270C-S	02/27/15	1

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MDL = Minimum Detection Limit = LOD = TRRP SDL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-14

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW15-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 12:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.25	1.3	mg/l		8260B	03/04/15	25
Acrolein	U	0.22	1.3	mg/l		8260B	03/04/15	25
Acrylonitrile	U	0.047	0.25	mg/l		8260B	03/04/15	25
Benzene	U	0.0083	0.025	mg/l		8260B	03/04/15	25
Bromobenzene	U	0.0088	0.025	mg/l		8260B	03/04/15	25
Bromodichloromethane	U	0.0095	0.025	mg/l		8260B	03/04/15	25
Bromoform	U	0.012	0.025	mg/l		8260B	03/04/15	25
Bromomethane	U	0.022	0.13	mg/l		8260B	03/04/15	25
n-Butylbenzene	U	0.0090	0.025	mg/l		8260B	03/04/15	25
sec-Butylbenzene	U	0.0091	0.025	mg/l		8260B	03/04/15	25
tert-Butylbenzene	U	0.010	0.025	mg/l		8260B	03/04/15	25
Carbon tetrachloride	U	0.0095	0.025	mg/l		8260B	03/04/15	25
Chlorobenzene	U	0.0087	0.025	mg/l		8260B	03/04/15	25
Chlorodibromomethane	U	0.0082	0.025	mg/l		8260B	03/04/15	25
Chloroethane	U	0.011	0.13	mg/l		8260B	03/04/15	25
2-Chloroethyl vinyl ether	U	0.075	1.3	mg/l		8260B	03/04/15	25
Chloroform	U	0.0081	0.13	mg/l		8260B	03/04/15	25
Chloromethane	U	0.0069	0.063	mg/l		8260B	03/04/15	25
2-Chlorotoluene	U	0.0094	0.025	mg/l		8260B	03/04/15	25
4-Chlorotoluene	U	0.0088	0.025	mg/l		8260B	03/04/15	25
1,2-Dibromo-3-Chloropropane	U	0.033	0.13	mg/l		8260B	03/04/15	25
1,2-Dibromoethane	U	0.0095	0.025	mg/l		8260B	03/04/15	25
Dibromomethane	U	0.0086	0.025	mg/l		8260B	03/04/15	25
1,2-Dichlorobenzene	U	0.0087	0.025	mg/l		8260B	03/04/15	25
1,3-Dichlorobenzene	U	0.0055	0.025	mg/l		8260B	03/04/15	25
1,4-Dichlorobenzene	U	0.0068	0.025	mg/l		8260B	03/04/15	25
Dichlorodifluoromethane	U	0.014	0.13	mg/l		8260B	03/04/15	25
1,1-Dichloroethane	U	0.0065	0.025	mg/l		8260B	03/04/15	25
1,2-Dichloroethane	U	0.0090	0.025	mg/l		8260B	03/04/15	25
1,1-Dichloroethene	U	0.010	0.025	mg/l		8260B	03/04/15	25
cis-1,2-Dichloroethene	U	0.0065	0.025	mg/l		8260B	03/04/15	25
trans-1,2-Dichloroethene	U	0.0099	0.025	mg/l		8260B	03/04/15	25
1,2-Dichloropropane	U	0.0076	0.025	mg/l		8260B	03/04/15	25
1,1-Dichloropropene	U	0.0088	0.025	mg/l		8260B	03/04/15	25
1,3-Dichloropropane	U	0.0092	0.025	mg/l		8260B	03/04/15	25
cis-1,3-Dichloropropene	U	0.010	0.025	mg/l		8260B	03/04/15	25
trans-1,3-Dichloropropene	U	0.010	0.025	mg/l		8260B	03/04/15	25
2,2-Dichloropropane	U	0.0080	0.025	mg/l		8260B	03/04/15	25
Di-isopropyl ether	U	0.0080	0.025	mg/l		8260B	03/04/15	25
Ethylbenzene	0.0097	0.0096	0.025	mg/l	J	8260B	03/04/15	25
Hexachloro-1,3-butadiene	U	0.0064	0.025	mg/l		8260B	03/04/15	25
Isopropylbenzene	0.020	0.0082	0.025	mg/l	J	8260B	03/04/15	25

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-14

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW15-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 12:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.0088	0.025	mg/l		8260B	03/04/15	25
2-Butanone (MEK)	U	0.098	0.25	mg/l		8260B	03/04/15	25
Methylene Chloride	U	0.025	0.13	mg/l		8260B	03/04/15	25
4-Methyl-2-pentanone (MIBK)	U	0.054	0.25	mg/l		8260B	03/04/15	25
Methyl tert-butyl ether	U	0.0092	0.025	mg/l		8260B	03/04/15	25
Naphthalene	3.0	0.025	0.13	mg/l	J4	8260B	03/04/15	25
n-Propylbenzene	0.010	0.0087	0.025	mg/l	J	8260B	03/04/15	25
Styrene	0.0085	0.0077	0.025	mg/l	J	8260B	03/04/15	25
1,1,1,2-Tetrachloroethane	U	0.0096	0.025	mg/l		8260B	03/04/15	25
1,1,2,2-Tetrachloroethane	U	0.0032	0.025	mg/l		8260B	03/04/15	25
1,1,2-Trichlorotrifluoroethane	U	0.0076	0.025	mg/l		8260B	03/04/15	25
Tetrachloroethene	U	0.0093	0.025	mg/l		8260B	03/04/15	25
Toluene	U	0.020	0.13	mg/l		8260B	03/04/15	25
1,2,3-Trichlorobenzene	U	0.0058	0.025	mg/l		8260B	03/04/15	25
1,2,4-Trichlorobenzene	U	0.0054	0.025	mg/l		8260B	03/04/15	25
1,1,1-Trichloroethane	U	0.0080	0.025	mg/l		8260B	03/04/15	25
1,1,2-Trichloroethane	U	0.0096	0.025	mg/l		8260B	03/04/15	25
Trichloroethene	U	0.010	0.025	mg/l		8260B	03/04/15	25
Trichlorofluoromethane	U	0.030	0.13	mg/l		8260B	03/04/15	25
1,2,3-Trichloropropane	U	0.020	0.063	mg/l		8260B	03/04/15	25
1,2,4-Trimethylbenzene	0.14	0.0093	0.025	mg/l		8260B	03/04/15	25
1,2,3-Trimethylbenzene	0.052	0.0080	0.025	mg/l		8260B	03/04/15	25
1,3,5-Trimethylbenzene	0.057	0.0097	0.025	mg/l		8260B	03/04/15	25
Vinyl chloride	U	0.0065	0.025	mg/l		8260B	03/04/15	25
Xylenes, Total	0.088	0.026	0.075	mg/l		8260B	03/04/15	25
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	03/04/15	1
Dibromofluoromethane	101.			% Rec.		8260B	03/04/15	1
4-Bromofluorobenzene	101.			% Rec.		8260B	03/04/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.17	0.000038	0.00025	mg/l		8270C-S	02/27/15	5
Acenaphthene	0.15	0.000041	0.00025	mg/l		8270C-S	02/27/15	5
Acenaphthylene	0.26	0.000034	0.00025	mg/l		8270C-S	02/27/15	5
Benzo(a)anthracene	0.11	0.000059	0.00025	mg/l		8270C-S	02/27/15	5
Benzo(a)pyrene	0.059	0.000058	0.00025	mg/l		8270C-S	02/27/15	5
Benzo(b)fluoranthene	0.066	0.000069	0.00025	mg/l		8270C-S	02/27/15	5
Benzo(g,h,i)perylene	0.021	0.000057	0.00025	mg/l		8270C-S	02/27/15	5
Benzo(k)fluoranthene	0.012	0.000068	0.00025	mg/l		8270C-S	02/27/15	5
Chrysene	0.095	0.000054	0.00025	mg/l		8270C-S	02/27/15	5
Dibenz(a,h)anthracene	0.0067	0.000020	0.00025	mg/l		8270C-S	02/27/15	5
Fluoranthene	0.27	0.000078	0.00025	mg/l		8270C-S	02/27/15	5
Fluorene	0.21	0.000042	0.00025	mg/l		8270C-S	02/27/15	5

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-14

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW15-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 12:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.018	0.000074	0.00025	mg/l		8270C-S	02/27/15	5
Naphthalene	2.9	0.00099	0.013	mg/l		8270C-S	03/03/15	50
Phenanthrene	0.71	0.00041	0.0025	mg/l		8270C-S	03/03/15	50
Pyrene	0.46	0.000058	0.00025	mg/l		8270C-S	02/27/15	5
1-Methylnaphthalene	0.78	0.00041	0.013	mg/l		8270C-S	03/03/15	50
2-Methylnaphthalene	0.81	0.00045	0.013	mg/l		8270C-S	03/03/15	50
2-Chloronaphthalene	U	0.000032	0.0013	mg/l		8270C-S	02/27/15	5
Surrogate Recovery								
Nitrobenzene-d5	54.5			% Rec.		8270C-S	02/27/15	5
2-Fluorobiphenyl	103.			% Rec.		8270C-S	02/27/15	5
p-Terphenyl-d14	94.4			% Rec.		8270C-S	02/27/15	5

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-15

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW16-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 12:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	03/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	03/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	03/03/15	1
Benzene	0.0049	0.00033	0.0010	mg/l		8260B	03/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	03/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	03/03/15	1
n-Butylbenzene	0.00095	0.00036	0.0010	mg/l	J	8260B	03/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	03/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	03/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l	J3	8260B	03/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	03/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	03/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	03/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	03/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	03/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	03/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	03/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
Ethylbenzene	0.0045	0.00038	0.0010	mg/l		8260B	03/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
Isopropylbenzene	0.0032	0.00033	0.0010	mg/l		8260B	03/03/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-15

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW16-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 12:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.0015	0.00035	0.0010	mg/l		8260B	03/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	03/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	03/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	03/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
Naphthalene	0.33	0.010	0.050	mg/l		8260B	03/04/15	10
n-Propylbenzene	0.0017	0.00035	0.0010	mg/l		8260B	03/03/15	1
Styrene	0.00092	0.00031	0.0010	mg/l	J	8260B	03/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	03/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	03/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
Toluene	0.0017	0.00078	0.0050	mg/l	J	8260B	03/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	03/03/15	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	03/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	03/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	03/03/15	1
1,2,4-Trimethylbenzene	0.019	0.00037	0.0010	mg/l		8260B	03/03/15	1
1,2,3-Trimethylbenzene	0.0066	0.00032	0.0010	mg/l		8260B	03/03/15	1
1,3,5-Trimethylbenzene	0.0077	0.00039	0.0010	mg/l		8260B	03/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
Xylenes, Total	0.0045	0.0011	0.0030	mg/l		8260B	03/03/15	1
Surrogate Recovery								
Toluene-d8	99.4			% Rec.		8260B	03/03/15	1
Dibromofluoromethane	98.7			% Rec.		8260B	03/03/15	1
4-Bromofluorobenzene	97.4			% Rec.		8260B	03/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.019	0.0000076	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthene	0.23	0.00016	0.0010	mg/l		8270C-S	03/03/15	20
Acenaphthylene	0.091	0.00014	0.0010	mg/l		8270C-S	03/03/15	20
Benzo(a)anthracene	0.00099	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)pyrene	0.00059	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(b)fluoranthene	0.00042	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(g,h,i)perylene	0.00029	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(k)fluoranthene	0.00016	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Chrysene	0.00090	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Dibenz(a,h)anthracene	0.000077	0.0000040	0.000050	mg/l		8270C-S	02/27/15	1
Fluoranthene	0.0062	0.000016	0.000050	mg/l		8270C-S	02/27/15	1
Fluorene	0.099	0.00017	0.0010	mg/l		8270C-S	03/03/15	20

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-15

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-MW16-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 12:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.00022	0.000015	0.000050	mg/l		8270C-S	02/27/15	1
Naphthalene	0.28	0.00040	0.0050	mg/l		8270C-S	03/03/15	20
Phenanthrene	0.094	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Pyrene	0.0082	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
1-Methylnaphthalene	0.68	0.00016	0.0050	mg/l		8270C-S	03/03/15	20
2-Methylnaphthalene	0.22	0.00018	0.0050	mg/l		8270C-S	03/03/15	20
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	92.7			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	121.			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	102.			% Rec.		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-16

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-FIELD DUP-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	03/04/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	03/04/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	03/04/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	03/04/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	03/04/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	03/04/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/04/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/04/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	03/04/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	03/04/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	03/04/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	03/04/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	03/04/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	03/04/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	03/04/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	03/04/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	03/04/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	03/04/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	03/04/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	03/04/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/04/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	03/04/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/04/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	03/04/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	03/04/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/04/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/04/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	03/04/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	03/04/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	03/04/15	1
Isopropylbenzene	0.00033	0.00033	0.0010	mg/l	J	8260B	03/04/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-16

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-FIELD DUP-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	03/04/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	03/04/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	03/04/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	03/04/15	1
Naphthalene	0.0046	0.0010	0.0050	mg/l	JJ4	8260B	03/04/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	03/04/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	03/04/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	03/04/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	03/04/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	03/04/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	03/04/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	03/04/15	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	03/04/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	03/04/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	03/04/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	03/04/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	03/04/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	03/04/15	1
1,2,4-Trimethylbenzene	0.0014	0.00037	0.0010	mg/l		8260B	03/04/15	1
1,2,3-Trimethylbenzene	0.00056	0.00032	0.0010	mg/l	J	8260B	03/04/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	03/04/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	03/04/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	03/04/15	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	03/04/15	1
Dibromofluoromethane	102.			% Rec.		8260B	03/04/15	1
4-Bromofluorobenzene	99.6			% Rec.		8260B	03/04/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0069	0.0000076	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthene	0.014	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Acenaphthylene	0.026	0.0000068	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)anthracene	0.0018	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(a)pyrene	0.0012	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(b)fluoranthene	0.0011	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(g,h,i)perylene	0.00049	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Benzo(k)fluoranthene	0.00032	0.000014	0.000050	mg/l		8270C-S	02/27/15	1
Chrysene	0.0017	0.000011	0.000050	mg/l		8270C-S	02/27/15	1
Dibenz(a,h)anthracene	0.00013	0.0000040	0.000050	mg/l		8270C-S	02/27/15	1
Fluoranthene	0.0055	0.000016	0.000050	mg/l		8270C-S	02/27/15	1
Fluorene	0.011	0.0000085	0.000050	mg/l		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-16

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : COB-FIELD DUP-022415

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.00040	0.000015	0.000050	mg/l		8270C-S	02/27/15	1
Naphthalene	0.0015	0.000020	0.00025	mg/l		8270C-S	02/27/15	1
Phenanthrene	0.028	0.0000082	0.000050	mg/l		8270C-S	02/27/15	1
Pyrene	0.010	0.000012	0.000050	mg/l		8270C-S	02/27/15	1
1-Methylnaphthalene	0.042	0.0000082	0.00025	mg/l		8270C-S	02/27/15	1
2-Methylnaphthalene	0.0027	0.0000090	0.00025	mg/l		8270C-S	02/27/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	02/27/15	1
Surrogate Recovery								
Nitrobenzene-d5	114.			% Rec.		8270C-S	02/27/15	1
2-Fluorobiphenyl	110.			% Rec.		8270C-S	02/27/15	1
p-Terphenyl-d14	96.3			% Rec.		8270C-S	02/27/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-17

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : TRIP BLANK

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	03/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	03/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	03/03/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	03/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	03/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	03/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	03/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	03/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l	J3	8260B	03/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	03/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	03/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	03/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	03/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	03/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	03/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	03/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	03/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	03/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	03/03/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

March 09, 2015

ESC Sample # : L750320-17

Date Received : February 25, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : TRIP BLANK

Project # : 5047-RC-C100

Collected By : Andrew Shove
Collection Date : 02/24/15 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	03/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	03/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	03/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
Naphthalene	U	0.0010	0.0050	mg/l		8260B	03/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	03/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	03/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	03/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	03/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	03/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	03/03/15	1
1,2,4-Trichlorobenzene	U	0.00021	0.0010	mg/l		8260B	03/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	03/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	03/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	03/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	03/03/15	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	03/03/15	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	03/03/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	03/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	03/03/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	03/03/15	1
Surrogate Recovery								
Toluene-d8	99.3			% Rec.		8260B	03/03/15	1
Dibromofluoromethane	98.7			% Rec.		8260B	03/03/15	1
4-Bromofluorobenzene	99.7			% Rec.		8260B	03/03/15	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 03/09/15 13:23 Printed: 03/09/15 13:25

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L750320-01	WG772403	SAMP	Chloroethane	R3022498	J4
	WG772403	SAMP	2-Chloroethyl vinyl ether	R3022498	J4
	WG772421	SAMP	Naphthalene	R3022147	J
	WG772421	SAMP	1-Methylnaphthalene	R3022147	J
L750320-02	WG772403	SAMP	Chloroethane	R3022498	J4
	WG772403	SAMP	2-Chloroethyl vinyl ether	R3022498	J4
	WG772421	SAMP	Anthracene	R3022147	J
	WG772421	SAMP	Acenaphthylene	R3022147	J
	WG772421	SAMP	Benzo(a)anthracene	R3022147	J
	WG772421	SAMP	Benzo(a)pyrene	R3022147	J
	WG772421	SAMP	Benzo(b)fluoranthene	R3022147	J
	WG772421	SAMP	Benzo(g,h,i)perylene	R3022147	J
	WG772421	SAMP	Benzo(k)fluoranthene	R3022147	J
	WG772421	SAMP	Chrysene	R3022147	J
	WG772421	SAMP	Dibenz(a,h)anthracene	R3022147	J
	WG772421	SAMP	Fluoranthene	R3022147	J
	WG772421	SAMP	Indeno(1,2,3-cd)pyrene	R3022147	J
	WG772421	SAMP	Naphthalene	R3022147	J
	WG772421	SAMP	1-Methylnaphthalene	R3022147	J
L750320-03	WG772403	SAMP	Chloroethane	R3022498	J4
	WG772403	SAMP	2-Chloroethyl vinyl ether	R3022498	J4
	WG772403	SAMP	Isopropylbenzene	R3022498	J
	WG772421	SAMP	Benzo(a)pyrene	R3022831	J
	WG772421	SAMP	Benzo(b)fluoranthene	R3022831	J
L750320-04	WG772403	SAMP	Chloroethane	R3022498	J4
	WG772403	SAMP	2-Chloroethyl vinyl ether	R3022498	J4
	WG772403	SAMP	Naphthalene	R3022498	J
	WG772421	SAMP	Anthracene	R3022147	J
	WG772421	SAMP	Acenaphthene	R3022147	J
	WG772421	SAMP	Benzo(a)pyrene	R3022147	J
	WG772421	SAMP	Benzo(g,h,i)perylene	R3022147	J
	WG772421	SAMP	Indeno(1,2,3-cd)pyrene	R3022147	J
	WG772421	SAMP	Naphthalene	R3022147	J
	WG772421	SAMP	Phenanthrene	R3022147	J
	WG772421	SAMP	Pyrene	R3022147	J
	WG772421	SAMP	1-Methylnaphthalene	R3022147	J
	WG772421	SAMP	2-Methylnaphthalene	R3022147	J
L750320-05	WG772403	SAMP	Chloroethane	R3022498	J4
	WG772403	SAMP	2-Chloroethyl vinyl ether	R3022498	J4
	WG772403	SAMP	Naphthalene	R3022498	J
	WG772403	SAMP	1,2,3-Trimethylbenzene	R3022498	J
L750320-06	WG772403	SAMP	Chloroethane	R3022498	J4
	WG772403	SAMP	2-Chloroethyl vinyl ether	R3022498	J4
	WG772403	SAMP	Isopropylbenzene	R3022498	J
	WG772403	SAMP	1,2,3-Trimethylbenzene	R3022498	J
	WG772403	SAMP	1,3,5-Trimethylbenzene	R3022498	J
	WG772403	SAMP	Xylenes, Total	R3022498	J
L750320-07	WG772405	SAMP	2-Chloroethyl vinyl ether	R3022772	J3
	WG772405	SAMP	n-Propylbenzene	R3022772	J
	WG772405	SAMP	1,3,5-Trimethylbenzene	R3022772	J
	WG772421	SAMP	Benzo(a)pyrene	R3022147	J
	WG772421	SAMP	Benzo(g,h,i)perylene	R3022147	J
L750320-08	WG772405	SAMP	2-Chloroethyl vinyl ether	R3022772	J3
	WG772405	SAMP	Ethylbenzene	R3022772	J
	WG772405	SAMP	Isopropylbenzene	R3022772	J
	WG772421	SAMP	Benzo(a)anthracene	R3022147	J
	WG772421	SAMP	Benzo(a)pyrene	R3022147	J
	WG772421	SAMP	Chrysene	R3022147	J
L750320-09	WG772405	SAMP	n-Butylbenzene	R3022772	J
	WG772405	SAMP	2-Chloroethyl vinyl ether	R3022772	J6
	WG772405	SAMP	Ethylbenzene	R3022772	J6
	WG772405	SAMP	Toluene	R3022772	J
	WG772405	SAMP	Xylenes, Total	R3022772	J6
	WG772421	SAMP	Acenaphthene	R3022831	V
	WG772421	SAMP	Acenaphthylene	R3022147	V
	WG772421	SAMP	Naphthalene	R3022831	V
	WG772421	SAMP	Phenanthrene	R3022147	V
	WG772421	SAMP	1-Methylnaphthalene	R3022831	V
	WG772421	SAMP	2-Methylnaphthalene	R3022147	V

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L750320-10	WG772405	SAMP	2-Chloroethyl vinyl ether	R3022772	J3
	WG772405	SAMP	Isopropylbenzene	R3022772	J
	WG772421	SAMP	Benzo(k)fluoranthene	R3022147	J
	WG772421	SAMP	Dibenz(a,h)anthracene	R3022147	J
	WG772421	SAMP	Indeno(1,2,3-cd)pyrene	R3022147	J
	WG772421	SAMP	2-Methylnaphthalene	R3022147	J
L750320-11	WG773581	SAMP	Benzene	R3022840	J
	WG773581	SAMP	p-Isopropyltoluene	R3022840	J
	WG773581	SAMP	Naphthalene	R3022840	J4
	WG773581	SAMP	Xylenes, Total	R3022840	J
	WG772421	SAMP	Benzo(g,h,i)perylene	R3022147	J
	WG772421	SAMP	Benzo(k)fluoranthene	R3022147	J
	WG772421	SAMP	Dibenz(a,h)anthracene	R3022147	J
	WG772421	SAMP	Indeno(1,2,3-cd)pyrene	R3022147	J
L750320-12	WG773581	SAMP	Naphthalene	R3022840	JJ4
	WG772421	SAMP	Benzo(a)pyrene	R3022147	J
	WG772421	SAMP	Benzo(b)fluoranthene	R3022147	J
	WG772421	SAMP	2-Methylnaphthalene	R3022147	J
L750320-13	WG772405	SAMP	2-Chloroethyl vinyl ether	R3022772	J3
	WG772405	SAMP	Ethylbenzene	R3022772	J
	WG772405	SAMP	Isopropylbenzene	R3022772	J
	WG772405	SAMP	n-Propylbenzene	R3022772	J
	WG772405	SAMP	Styrene	R3022772	J
	WG772405	SAMP	1,3,5-Trimethylbenzene	R3022772	J
	WG772405	SAMP	Xylenes, Total	R3022772	J
	WG772421	SAMP	Benzo(a)anthracene	R3022147	J
	WG772421	SAMP	Benzo(a)pyrene	R3022147	J
	WG772421	SAMP	Benzo(b)fluoranthene	R3022147	J
	WG772421	SAMP	Benzo(g,h,i)perylene	R3022147	J
	WG772421	SAMP	Chrysene	R3022147	J
L750320-14	WG773581	SAMP	Ethylbenzene	R3022840	J
	WG773581	SAMP	Isopropylbenzene	R3022840	J
	WG773581	SAMP	Naphthalene	R3022840	J4
	WG773581	SAMP	n-Propylbenzene	R3022840	J
	WG773581	SAMP	Styrene	R3022840	J
L750320-15	WG772405	SAMP	n-Butylbenzene	R3022772	J
	WG772405	SAMP	2-Chloroethyl vinyl ether	R3022772	J3
	WG772405	SAMP	Styrene	R3022772	J
	WG772405	SAMP	Toluene	R3022772	J
L750320-16	WG773581	SAMP	Isopropylbenzene	R3022840	J
	WG773581	SAMP	Naphthalene	R3022840	JJ4
	WG773581	SAMP	1,2,3-Trimethylbenzene	R3022840	J
L750320-17	WG772405	SAMP	2-Chloroethyl vinyl ether	R3022772	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

12065 Lebanon Rd.
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Tax I.D. 62-0814289

Est. 1970

USA Environment, LP
Craig Lugowski
17301 W. Colfax Avenue, Suite 152

Golden, CO 80401

Quality Assurance Report
Level II

L750320

March 09, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1-Methylnaphthalene	< .00025	mg/l			WG772421	02/27/15 04:58
2-Chloronaphthalene	< .00005	mg/l			WG772421	02/27/15 04:58
2-Methylnaphthalene	< .00025	mg/l			WG772421	02/27/15 04:58
Acenaphthene	< .00005	mg/l			WG772421	02/27/15 04:58
Acenaphthylene	< .00005	mg/l			WG772421	02/27/15 04:58
Anthracene	< .00005	mg/l			WG772421	02/27/15 04:58
Benzo(a)anthracene	< .00005	mg/l			WG772421	02/27/15 04:58
Benzo(a)pyrene	< .00005	mg/l			WG772421	02/27/15 04:58
Benzo(b)fluoranthene	< .00005	mg/l			WG772421	02/27/15 04:58
Benzo(g,h,i)perylene	< .00005	mg/l			WG772421	02/27/15 04:58
Benzo(k)fluoranthene	< .00005	mg/l			WG772421	02/27/15 04:58
Chrysene	< .00005	mg/l			WG772421	02/27/15 04:58
Dibenz(a,h)anthracene	< .00005	mg/l			WG772421	02/27/15 04:58
Fluoranthene	< .00005	mg/l			WG772421	02/27/15 04:58
Fluorene	< .00005	mg/l			WG772421	02/27/15 04:58
Indeno(1,2,3-cd)pyrene	< .00005	mg/l			WG772421	02/27/15 04:58
Naphthalene	< .00025	mg/l			WG772421	02/27/15 04:58
Phenanthrene	< .00005	mg/l			WG772421	02/27/15 04:58
Pyrene	< .00005	mg/l			WG772421	02/27/15 04:58
2-Fluorobiphenyl		% Rec.	98.80	57.7-153	WG772421	02/27/15 04:58
Nitrobenzene-d5		% Rec.	97.00	45.1-170	WG772421	02/27/15 04:58
p-Terphenyl-d14		% Rec.	107.0	53.2-156	WG772421	02/27/15 04:58
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG772403	02/28/15 23:15
1,1,1-Trichloroethane	< .001	mg/l			WG772403	02/28/15 23:15
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG772403	02/28/15 23:15
1,1,2-Trichloroethane	< .001	mg/l			WG772403	02/28/15 23:15
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG772403	02/28/15 23:15
1,1-Dichloroethane	< .001	mg/l			WG772403	02/28/15 23:15
1,1-Dichloroethene	< .001	mg/l			WG772403	02/28/15 23:15
1,1-Dichloropropene	< .001	mg/l			WG772403	02/28/15 23:15
1,2,3-Trichlorobenzene	< .001	mg/l			WG772403	02/28/15 23:15
1,2,3-Trichloropropane	< .001	mg/l			WG772403	02/28/15 23:15
1,2,3-Trimethylbenzene	< .001	mg/l			WG772403	02/28/15 23:15
1,2,4-Trichlorobenzene	< .001	mg/l			WG772403	02/28/15 23:15
1,2,4-Trimethylbenzene	< .001	mg/l			WG772403	02/28/15 23:15
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG772403	02/28/15 23:15
1,2-Dibromoethane	< .001	mg/l			WG772403	02/28/15 23:15
1,2-Dichlorobenzene	< .001	mg/l			WG772403	02/28/15 23:15
1,2-Dichloroethane	< .001	mg/l			WG772403	02/28/15 23:15
1,2-Dichloropropane	< .001	mg/l			WG772403	02/28/15 23:15
1,3,5-Trimethylbenzene	< .001	mg/l			WG772403	02/28/15 23:15
1,3-Dichlorobenzene	< .001	mg/l			WG772403	02/28/15 23:15
1,3-Dichloropropane	< .001	mg/l			WG772403	02/28/15 23:15
1,4-Dichlorobenzene	< .001	mg/l			WG772403	02/28/15 23:15
2,2-Dichloropropane	< .001	mg/l			WG772403	02/28/15 23:15
2-Butanone (MEK)	< .01	mg/l			WG772403	02/28/15 23:15
2-Chloroethyl vinyl ether	< .05	mg/l			WG772403	02/28/15 23:15
2-Chlorotoluene	< .001	mg/l			WG772403	02/28/15 23:15
4-Chlorotoluene	< .001	mg/l			WG772403	02/28/15 23:15
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG772403	02/28/15 23:15
Acetone	< .05	mg/l			WG772403	02/28/15 23:15
Acrolein	< .025	mg/l			WG772403	02/28/15 23:15
Acrylonitrile	< .01	mg/l			WG772403	02/28/15 23:15
Benzene	< .001	mg/l			WG772403	02/28/15 23:15
Bromobenzene	< .001	mg/l			WG772403	02/28/15 23:15
Bromodichloromethane	< .001	mg/l			WG772403	02/28/15 23:15
Bromoform	< .001	mg/l			WG772403	02/28/15 23:15

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Craig Lugowski
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Golden, CO 80401

Quality Assurance Report
Level II

L750320

March 09, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Bromomethane	< .005	mg/l			WG772403	02/28/15 23:15
Carbon tetrachloride	< .001	mg/l			WG772403	02/28/15 23:15
Chlorobenzene	< .001	mg/l			WG772403	02/28/15 23:15
Chlorodibromomethane	< .001	mg/l			WG772403	02/28/15 23:15
Chloroethane	< .005	mg/l			WG772403	02/28/15 23:15
Chloroform	< .005	mg/l			WG772403	02/28/15 23:15
Chloromethane	< .0025	mg/l			WG772403	02/28/15 23:15
cis-1,2-Dichloroethene	< .001	mg/l			WG772403	02/28/15 23:15
cis-1,3-Dichloropropene	< .001	mg/l			WG772403	02/28/15 23:15
Di-isopropyl ether	< .001	mg/l			WG772403	02/28/15 23:15
Dibromomethane	< .001	mg/l			WG772403	02/28/15 23:15
Dichlorodifluoromethane	< .005	mg/l			WG772403	02/28/15 23:15
Ethylbenzene	< .001	mg/l			WG772403	02/28/15 23:15
Hexachloro-1,3-butadiene	< .001	mg/l			WG772403	02/28/15 23:15
Isopropylbenzene	< .001	mg/l			WG772403	02/28/15 23:15
Methyl tert-butyl ether	< .001	mg/l			WG772403	02/28/15 23:15
Methylene Chloride	< .005	mg/l			WG772403	02/28/15 23:15
n-Butylbenzene	< .001	mg/l			WG772403	02/28/15 23:15
n-Propylbenzene	< .001	mg/l			WG772403	02/28/15 23:15
Naphthalene	< .005	mg/l			WG772403	02/28/15 23:15
p-Isopropyltoluene	< .001	mg/l			WG772403	02/28/15 23:15
sec-Butylbenzene	< .001	mg/l			WG772403	02/28/15 23:15
Styrene	< .001	mg/l			WG772403	02/28/15 23:15
tert-Butylbenzene	< .001	mg/l			WG772403	02/28/15 23:15
Tetrachloroethene	< .001	mg/l			WG772403	02/28/15 23:15
Toluene	< .005	mg/l			WG772403	02/28/15 23:15
trans-1,2-Dichloroethene	< .001	mg/l			WG772403	02/28/15 23:15
trans-1,3-Dichloropropene	< .001	mg/l			WG772403	02/28/15 23:15
Trichloroethene	< .001	mg/l			WG772403	02/28/15 23:15
Trichlorofluoromethane	< .005	mg/l			WG772403	02/28/15 23:15
Vinyl chloride	< .001	mg/l			WG772403	02/28/15 23:15
Xylenes, Total	< .003	mg/l			WG772403	02/28/15 23:15
4-Bromofluorobenzene		% Rec.	92.70	71-126	WG772403	02/28/15 23:15
Dibromofluoromethane		% Rec.	105.0	78.3-121	WG772403	02/28/15 23:15
Toluene-d8		% Rec.	101.0	88.5-111	WG772403	02/28/15 23:15
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG772405	03/03/15 12:14
1,1,1-Trichloroethane	< .001	mg/l			WG772405	03/03/15 12:14
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG772405	03/03/15 12:14
1,1,2-Trichloroethane	< .001	mg/l			WG772405	03/03/15 12:14
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG772405	03/03/15 12:14
1,1-Dichloroethane	< .001	mg/l			WG772405	03/03/15 12:14
1,1-Dichloroethene	< .001	mg/l			WG772405	03/03/15 12:14
1,1-Dichloropropene	< .001	mg/l			WG772405	03/03/15 12:14
1,2,3-Trichlorobenzene	< .001	mg/l			WG772405	03/03/15 12:14
1,2,3-Trichloropropane	< .001	mg/l			WG772405	03/03/15 12:14
1,2,3-Trimethylbenzene	< .001	mg/l			WG772405	03/03/15 12:14
1,2,4-Trichlorobenzene	< .001	mg/l			WG772405	03/03/15 12:14
1,2,4-Trimethylbenzene	< .001	mg/l			WG772405	03/03/15 12:14
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG772405	03/03/15 12:14
1,2-Dibromoethane	< .001	mg/l			WG772405	03/03/15 12:14
1,2-Dichlorobenzene	< .001	mg/l			WG772405	03/03/15 12:14
1,2-Dichloroethane	< .001	mg/l			WG772405	03/03/15 12:14
1,2-Dichloropropane	< .001	mg/l			WG772405	03/03/15 12:14
1,3,5-Trimethylbenzene	< .001	mg/l			WG772405	03/03/15 12:14
1,3-Dichlorobenzene	< .001	mg/l			WG772405	03/03/15 12:14
1,3-Dichloropropane	< .001	mg/l			WG772405	03/03/15 12:14
1,4-Dichlorobenzene	< .001	mg/l			WG772405	03/03/15 12:14

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Golden, CO 80401

Quality Assurance Report
Level II

L750320

March 09, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
2,2-Dichloropropane	< .001	mg/l			WG772405	03/03/15 12:14
2-Butanone (MEK)	< .01	mg/l			WG772405	03/03/15 12:14
2-Chloroethyl vinyl ether	< .05	mg/l			WG772405	03/03/15 12:14
2-Chlorotoluene	< .001	mg/l			WG772405	03/03/15 12:14
4-Chlorotoluene	< .001	mg/l			WG772405	03/03/15 12:14
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG772405	03/03/15 12:14
Acetone	< .05	mg/l			WG772405	03/03/15 12:14
Acrolein	< .025	mg/l			WG772405	03/03/15 12:14
Acrylonitrile	< .01	mg/l			WG772405	03/03/15 12:14
Benzene	< .001	mg/l			WG772405	03/03/15 12:14
Bromobenzene	< .001	mg/l			WG772405	03/03/15 12:14
Bromodichloromethane	< .001	mg/l			WG772405	03/03/15 12:14
Bromoform	< .001	mg/l			WG772405	03/03/15 12:14
Bromomethane	< .005	mg/l			WG772405	03/03/15 12:14
Carbon tetrachloride	< .001	mg/l			WG772405	03/03/15 12:14
Chlorobenzene	< .001	mg/l			WG772405	03/03/15 12:14
Chlorodibromomethane	< .001	mg/l			WG772405	03/03/15 12:14
Chloroethane	< .005	mg/l			WG772405	03/03/15 12:14
Chloroform	< .005	mg/l			WG772405	03/03/15 12:14
Chloromethane	< .0025	mg/l			WG772405	03/03/15 12:14
cis-1,2-Dichloroethene	< .001	mg/l			WG772405	03/03/15 12:14
cis-1,3-Dichloropropene	< .001	mg/l			WG772405	03/03/15 12:14
Di-isopropyl ether	< .001	mg/l			WG772405	03/03/15 12:14
Dibromomethane	< .001	mg/l			WG772405	03/03/15 12:14
Dichlorodifluoromethane	< .005	mg/l			WG772405	03/03/15 12:14
Ethylbenzene	< .001	mg/l			WG772405	03/03/15 12:14
Hexachloro-1,3-butadiene	< .001	mg/l			WG772405	03/03/15 12:14
Isopropylbenzene	< .001	mg/l			WG772405	03/03/15 12:14
Methyl tert-butyl ether	< .001	mg/l			WG772405	03/03/15 12:14
Methylene Chloride	< .005	mg/l			WG772405	03/03/15 12:14
n-Butylbenzene	< .001	mg/l			WG772405	03/03/15 12:14
n-Propylbenzene	< .001	mg/l			WG772405	03/03/15 12:14
Naphthalene	< .005	mg/l			WG772405	03/03/15 12:14
p-Isopropyltoluene	< .001	mg/l			WG772405	03/03/15 12:14
sec-Butylbenzene	< .001	mg/l			WG772405	03/03/15 12:14
Styrene	< .001	mg/l			WG772405	03/03/15 12:14
tert-Butylbenzene	< .001	mg/l			WG772405	03/03/15 12:14
Tetrachloroethene	< .001	mg/l			WG772405	03/03/15 12:14
Toluene	< .005	mg/l			WG772405	03/03/15 12:14
trans-1,2-Dichloroethene	< .001	mg/l			WG772405	03/03/15 12:14
trans-1,3-Dichloropropene	< .001	mg/l			WG772405	03/03/15 12:14
Trichloroethene	< .001	mg/l			WG772405	03/03/15 12:14
Trichlorofluoromethane	< .005	mg/l			WG772405	03/03/15 12:14
Vinyl chloride	< .001	mg/l			WG772405	03/03/15 12:14
Xylenes, Total	< .003	mg/l			WG772405	03/03/15 12:14
4-Bromofluorobenzene		% Rec.	97.80	71-126	WG772405	03/03/15 12:14
Dibromofluoromethane		% Rec.	96.40	78.3-121	WG772405	03/03/15 12:14
Toluene-d8		% Rec.	99.20	88.5-111	WG772405	03/03/15 12:14
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG773581	03/04/15 01:09
1,1,1-Trichloroethane	< .001	mg/l			WG773581	03/04/15 01:09
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG773581	03/04/15 01:09
1,1,2-Trichloroethane	< .001	mg/l			WG773581	03/04/15 01:09
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG773581	03/04/15 01:09
1,1-Dichloroethane	< .001	mg/l			WG773581	03/04/15 01:09
1,1-Dichloroethene	< .001	mg/l			WG773581	03/04/15 01:09
1,1-Dichloropropene	< .001	mg/l			WG773581	03/04/15 01:09
1,2,3-Trichlorobenzene	< .001	mg/l			WG773581	03/04/15 01:09

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Quality Assurance Report
Level II

L750320

March 09, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,2,3-Trichloropropane	< .001	mg/l			WG773581	03/04/15 01:09
1,2,3-Trimethylbenzene	< .001	mg/l			WG773581	03/04/15 01:09
1,2,4-Trichlorobenzene	< .001	mg/l			WG773581	03/04/15 01:09
1,2,4-Trimethylbenzene	< .001	mg/l			WG773581	03/04/15 01:09
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG773581	03/04/15 01:09
1,2-Dibromoethane	< .001	mg/l			WG773581	03/04/15 01:09
1,2-Dichlorobenzene	< .001	mg/l			WG773581	03/04/15 01:09
1,2-Dichloroethane	< .001	mg/l			WG773581	03/04/15 01:09
1,2-Dichloropropane	< .001	mg/l			WG773581	03/04/15 01:09
1,3,5-Trimethylbenzene	< .001	mg/l			WG773581	03/04/15 01:09
1,3-Dichlorobenzene	< .001	mg/l			WG773581	03/04/15 01:09
1,3-Dichloropropane	< .001	mg/l			WG773581	03/04/15 01:09
1,4-Dichlorobenzene	< .001	mg/l			WG773581	03/04/15 01:09
2,2-Dichloropropane	< .001	mg/l			WG773581	03/04/15 01:09
2-Butanone (MEK)	< .01	mg/l			WG773581	03/04/15 01:09
2-Chloroethyl vinyl ether	< .05	mg/l			WG773581	03/04/15 01:09
2-Chlorotoluene	< .001	mg/l			WG773581	03/04/15 01:09
4-Chlorotoluene	< .001	mg/l			WG773581	03/04/15 01:09
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG773581	03/04/15 01:09
Acetone	< .05	mg/l			WG773581	03/04/15 01:09
Acrolein	< .025	mg/l			WG773581	03/04/15 01:09
Acrylonitrile	< .01	mg/l			WG773581	03/04/15 01:09
Benzene	< .001	mg/l			WG773581	03/04/15 01:09
Bromobenzene	< .001	mg/l			WG773581	03/04/15 01:09
Bromodichloromethane	< .001	mg/l			WG773581	03/04/15 01:09
Bromoform	< .001	mg/l			WG773581	03/04/15 01:09
Bromomethane	< .005	mg/l			WG773581	03/04/15 01:09
Carbon tetrachloride	< .001	mg/l			WG773581	03/04/15 01:09
Chlorobenzene	< .001	mg/l			WG773581	03/04/15 01:09
Chlorodibromomethane	< .001	mg/l			WG773581	03/04/15 01:09
Chloroethane	< .005	mg/l			WG773581	03/04/15 01:09
Chloroform	< .005	mg/l			WG773581	03/04/15 01:09
Chloromethane	< .0025	mg/l			WG773581	03/04/15 01:09
cis-1,2-Dichloroethene	< .001	mg/l			WG773581	03/04/15 01:09
cis-1,3-Dichloropropene	< .001	mg/l			WG773581	03/04/15 01:09
Di-isopropyl ether	< .001	mg/l			WG773581	03/04/15 01:09
Dibromomethane	< .001	mg/l			WG773581	03/04/15 01:09
Dichlorodifluoromethane	< .005	mg/l			WG773581	03/04/15 01:09
Ethylbenzene	< .001	mg/l			WG773581	03/04/15 01:09
Hexachloro-1,3-butadiene	< .001	mg/l			WG773581	03/04/15 01:09
Isopropylbenzene	< .001	mg/l			WG773581	03/04/15 01:09
Methyl tert-butyl ether	< .001	mg/l			WG773581	03/04/15 01:09
Methylene Chloride	< .005	mg/l			WG773581	03/04/15 01:09
n-Butylbenzene	< .001	mg/l			WG773581	03/04/15 01:09
n-Propylbenzene	< .001	mg/l			WG773581	03/04/15 01:09
Naphthalene	< .005	mg/l			WG773581	03/04/15 01:09
p-Isopropyltoluene	< .001	mg/l			WG773581	03/04/15 01:09
sec-Butylbenzene	< .001	mg/l			WG773581	03/04/15 01:09
Styrene	< .001	mg/l			WG773581	03/04/15 01:09
tert-Butylbenzene	< .001	mg/l			WG773581	03/04/15 01:09
Tetrachloroethene	< .001	mg/l			WG773581	03/04/15 01:09
Toluene	< .005	mg/l			WG773581	03/04/15 01:09
trans-1,2-Dichloroethene	< .001	mg/l			WG773581	03/04/15 01:09
trans-1,3-Dichloropropene	< .001	mg/l			WG773581	03/04/15 01:09
Trichloroethene	< .001	mg/l			WG773581	03/04/15 01:09
Trichlorofluoromethane	< .005	mg/l			WG773581	03/04/15 01:09
Vinyl chloride	< .001	mg/l			WG773581	03/04/15 01:09
Xylenes, Total	< .003	mg/l			WG773581	03/04/15 01:09
4-Bromofluorobenzene		% Rec.	98.50	71-126	WG773581	03/04/15 01:09

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Quality Assurance Report
Level II

L750320

March 09, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Dibromofluoromethane		% Rec.	98.00	78.3-121		03/04/15 01:09
Toluene-d8		% Rec.	99.10	88.5-111		03/04/15 01:09
Naphthalene	< .005	mg/l			WG773576	03/04/15 01:10
4-Bromofluorobenzene		% Rec.	101.0	71-126	WG773576	03/04/15 01:10
Dibromofluoromethane		% Rec.	95.30	78.3-121	WG773576	03/04/15 01:10
Toluene-d8		% Rec.	102.0	88.5-111	WG773576	03/04/15 01:10

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1-Methylnaphthalene	mg/l	.002	0.00204	102.	73.2-141	WG772421
2-Chloronaphthalene	mg/l	.002	0.00198	98.8	74.2-135	WG772421
2-Methylnaphthalene	mg/l	.002	0.00202	101.	72.4-141	WG772421
Acenaphthene	mg/l	.002	0.00202	101.	76.2-136	WG772421
Acenaphthylene	mg/l	.002	0.00201	101.	71.3-139	WG772421
Anthracene	mg/l	.002	0.00214	107.	77.3-144	WG772421
Benzo(a)anthracene	mg/l	.002	0.00198	98.9	71.4-142	WG772421
Benzo(a)pyrene	mg/l	.002	0.00203	101.	70.8-140	WG772421
Benzo(b)fluoranthene	mg/l	.002	0.00208	104.	68-142	WG772421
Benzo(g,h,i)perylene	mg/l	.002	0.00213	107.	62.8-146	WG772421
Benzo(k)fluoranthene	mg/l	.002	0.00199	99.7	70.1-144	WG772421
Chrysene	mg/l	.002	0.00206	103.	73.6-143	WG772421
Dibenz(a,h)anthracene	mg/l	.002	0.00206	103.	56.1-147	WG772421
Fluoranthene	mg/l	.002	0.00214	107.	77.9-147	WG772421
Fluorene	mg/l	.002	0.00197	98.4	75.3-136	WG772421
Indeno(1,2,3-cd)pyrene	mg/l	.002	0.00211	106.	61.6-147	WG772421
Naphthalene	mg/l	.002	0.00200	99.8	72.2-137	WG772421
Phenanthrene	mg/l	.002	0.00199	99.4	76-133	WG772421
Pyrene	mg/l	.002	0.00205	102.	73-139	WG772421
2-Fluorobiphenyl				96.80	57.7-153	WG772421
Nitrobenzene-d5				99.40	45.1-170	WG772421
p-Terphenyl-d14				104.0	53.2-156	WG772421
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0205	81.9	74.2-124	WG772405
1,1,1-Trichloroethane	mg/l	.025	0.0190	76.1	73.2-123	WG772405
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0210	84.1	70.7-122	WG772405
1,1,2-Trichloroethane	mg/l	.025	0.0220	88.1	77.7-118	WG772405
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0212	84.9	67.2-143	WG772405
1,1-Dichloroethane	mg/l	.025	0.0219	87.6	70.7-126	WG772405
1,1-Dichloroethene	mg/l	.025	0.0200	80.1	67.8-129	WG772405
1,1-Dichloropropene	mg/l	.025	0.0206	82.6	73.1-125	WG772405
1,2,3-Trichlorobenzene	mg/l	.025	0.0230	91.8	64.9-135	WG772405
1,2,3-Trichloropropane	mg/l	.025	0.0193	77.2	71.8-121	WG772405
1,2,3-Trimethylbenzene	mg/l	.025	0.0222	88.8	72.3-116	WG772405
1,2,4-Trichlorobenzene	mg/l	.025	0.0224	89.5	69.7-136	WG772405
1,2,4-Trimethylbenzene	mg/l	.025	0.0205	82.1	75-123	WG772405
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0214	85.7	65.4-128	WG772405
1,2-Dibromoethane	mg/l	.025	0.0211	84.3	76.6-121	WG772405
1,2-Dichlorobenzene	mg/l	.025	0.0224	89.7	78.4-117	WG772405
1,2-Dichloroethane	mg/l	.025	0.0186	74.6	68.8-124	WG772405
1,2-Dichloropropane	mg/l	.025	0.0223	89.3	76.5-119	WG772405
1,3,5-Trimethylbenzene	mg/l	.025	0.0206	82.3	75.6-124	WG772405
1,3-Dichlorobenzene	mg/l	.025	0.0201	80.2	70.8-128	WG772405
1,3-Dichloropropane	mg/l	.025	0.0211	84.3	77.4-117	WG772405
1,4-Dichlorobenzene	mg/l	.025	0.0213	85.1	78.8-115	WG772405
2,2-Dichloropropane	mg/l	.025	0.0169	67.8	62.4-133	WG772405
2-Butanone (MEK)	mg/l	.125	0.0774	61.9	55-149	WG772405
2-Chloroethyl vinyl ether	mg/l	.125	0.0814	65.1	43.8-150	WG772405

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Quality Assurance Report
Level II

L750320

March 09, 2015

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
2-Chlorotoluene	mg/l	.025	0.0205	81.8	74.7-122	WG772405
4-Chlorotoluene	mg/l	.025	0.0201	80.6	77.5-120	WG772405
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.0994	79.5	70.5-133	WG772405
Acetone	mg/l	.125	0.0474	37.9	35.6-163	WG772405
Acrolein	mg/l	.125	0.0896	71.7	10-190	WG772405
Acrylonitrile	mg/l	.125	0.107	85.4	55.2-130	WG772405
Benzene	mg/l	.025	0.0221	88.5	74.8-121	WG772405
Bromobenzene	mg/l	.025	0.0202	80.6	77.5-116	WG772405
Bromodichloromethane	mg/l	.025	0.0202	80.6	75.1-116	WG772405
Bromoform	mg/l	.025	0.0193	77.4	67.5-130	WG772405
Bromomethane	mg/l	.025	0.0165	65.8	49.9-162	WG772405
Carbon tetrachloride	mg/l	.025	0.0181	72.5	70.2-123	WG772405
Chlorobenzene	mg/l	.025	0.0212	84.9	78.1-119	WG772405
Chlorodibromomethane	mg/l	.025	0.0202	81.0	74-121	WG772405
Chloroethane	mg/l	.025	0.0181	72.3	61.7-135	WG772405
Chloroform	mg/l	.025	0.0195	77.9	76-121	WG772405
Chloromethane	mg/l	.025	0.0212	85.0	61.5-129	WG772405
cis-1,2-Dichloroethene	mg/l	.025	0.0225	90.0	76-119	WG772405
cis-1,3-Dichloropropene	mg/l	.025	0.0211	84.3	78.2-120	WG772405
Di-isopropyl ether	mg/l	.025	0.0220	87.8	65.6-132	WG772405
Dibromomethane	mg/l	.025	0.0200	79.9	79.5-118	WG772405
Dichlorodifluoromethane	mg/l	.025	0.0174	69.7	54.8-135	WG772405
Ethylbenzene	mg/l	.025	0.0213	85.1	78.8-122	WG772405
Hexachloro-1,3-butadiene	mg/l	.025	0.0210	84.1	64.7-129	WG772405
Isopropylbenzene	mg/l	.025	0.0206	82.3	78.6-132	WG772405
Methyl tert-butyl ether	mg/l	.025	0.0215	86.1	71.2-126	WG772405
Methylene Chloride	mg/l	.025	0.0205	82.0	70.3-120	WG772405
n-Butylbenzene	mg/l	.025	0.0221	88.2	76.2-126	WG772405
n-Propylbenzene	mg/l	.025	0.0206	82.2	78.2-122	WG772405
Naphthalene	mg/l	.025	0.0231	92.5	68.4-128	WG772405
p-Isopropyltoluene	mg/l	.025	0.0204	81.5	74-131	WG772405
sec-Butylbenzene	mg/l	.025	0.0207	82.7	74.4-127	WG772405
Styrene	mg/l	.025	0.0211	84.4	80.4-126	WG772405
tert-Butylbenzene	mg/l	.025	0.0205	82.2	75.3-126	WG772405
Tetrachloroethene	mg/l	.025	0.0200	79.9	72.6-126	WG772405
Toluene	mg/l	.025	0.0207	83.0	79.7-116	WG772405
trans-1,2-Dichloroethene	mg/l	.025	0.0219	87.6	72.6-121	WG772405
trans-1,3-Dichloropropene	mg/l	.025	0.0201	80.6	74.3-123	WG772405
Trichloroethene	mg/l	.025	0.0210	83.9	77.7-118	WG772405
Trichlorofluoromethane	mg/l	.025	0.0174	69.6	63.5-135	WG772405
Vinyl chloride	mg/l	.025	0.0198	79.4	65.9-128	WG772405
Xylenes, Total	mg/l	.075	0.0634	84.5	78.7-121	WG772405
4-Bromofluorobenzene				94.00	71-126	WG772405
Dibromofluoromethane				95.90	78.3-121	WG772405
Toluene-d8				99.60	88.5-111	WG772405
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0264	106.	74.2-124	WG773581
1,1,1-Trichloroethane	mg/l	.025	0.0263	105.	73.2-123	WG773581
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0282	113.	70.7-122	WG773581
1,1,2-Trichloroethane	mg/l	.025	0.0248	99.0	77.7-118	WG773581
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0248	99.1	67.2-143	WG773581
1,1-Dichloroethane	mg/l	.025	0.0259	104.	70.7-126	WG773581
1,1-Dichloroethene	mg/l	.025	0.0273	109.	67.8-129	WG773581
1,1-Dichloropropene	mg/l	.025	0.0265	106.	73.1-125	WG773581
1,2,3-Trichlorobenzene	mg/l	.025	0.0305	122.	64.9-135	WG773581
1,2,3-Trichloropropane	mg/l	.025	0.0273	109.	71.8-121	WG773581
1,2,3-Trimethylbenzene	mg/l	.025	0.0256	102.	72.3-116	WG773581
1,2,4-Trichlorobenzene	mg/l	.025	0.0317	127.	69.7-136	WG773581

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Craig Lugowski
17301 W. Colfax Avenue, Suite 152

Golden, CO 80401

Quality Assurance Report
Level II

L750320

March 09, 2015

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,2,4-Trimethylbenzene	mg/l	.025	0.0269	108.	75-123	WG773581
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0272	109.	65.4-128	WG773581
1,2-Dibromoethane	mg/l	.025	0.0255	102.	76.6-121	WG773581
1,2-Dichlorobenzene	mg/l	.025	0.0268	107.	78.4-117	WG773581
1,2-Dichloroethane	mg/l	.025	0.0260	104.	68.8-124	WG773581
1,2-Dichloropropane	mg/l	.025	0.0257	103.	76.5-119	WG773581
1,3,5-Trimethylbenzene	mg/l	.025	0.0262	105.	75.6-124	WG773581
1,3-Dichlorobenzene	mg/l	.025	0.0282	113.	70.8-128	WG773581
1,3-Dichloropropane	mg/l	.025	0.0253	101.	77.4-117	WG773581
1,4-Dichlorobenzene	mg/l	.025	0.0254	102.	78.8-115	WG773581
2,2-Dichloropropane	mg/l	.025	0.0263	105.	62.4-133	WG773581
2-Butanone (MEK)	mg/l	.125	0.130	104.	55-149	WG773581
2-Chloroethyl vinyl ether	mg/l	.125	0.139	111.	43.8-150	WG773581
2-Chlorotoluene	mg/l	.025	0.0256	102.	74.7-122	WG773581
4-Chlorotoluene	mg/l	.025	0.0265	106.	77.5-120	WG773581
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.134	107.	70.5-133	WG773581
Acetone	mg/l	.125	0.138	110.	35.6-163	WG773581
Acrolein	mg/l	.125	0.130	104.	10-190	WG773581
Acrylonitrile	mg/l	.125	0.134	107.	55.2-130	WG773581
Benzene	mg/l	.025	0.0255	102.	74.8-121	WG773581
Bromobenzene	mg/l	.025	0.0252	101.	77.5-116	WG773581
Bromodichloromethane	mg/l	.025	0.0271	108.	75.1-116	WG773581
Bromoform	mg/l	.025	0.0267	107.	67.5-130	WG773581
Bromomethane	mg/l	.025	0.0247	98.9	49.9-162	WG773581
Carbon tetrachloride	mg/l	.025	0.0259	104.	70.2-123	WG773581
Chlorobenzene	mg/l	.025	0.0257	103.	78.1-119	WG773581
Chlorodibromomethane	mg/l	.025	0.0256	102.	74-121	WG773581
Chloroethane	mg/l	.025	0.0248	99.1	61.7-135	WG773581
Chloroform	mg/l	.025	0.0258	103.	76-121	WG773581
Chloromethane	mg/l	.025	0.0227	90.6	61.5-129	WG773581
cis-1,2-Dichloroethene	mg/l	.025	0.0259	104.	76-119	WG773581
cis-1,3-Dichloropropene	mg/l	.025	0.0264	106.	78.2-120	WG773581
Di-isopropyl ether	mg/l	.025	0.0246	98.4	65.6-132	WG773581
Dibromomethane	mg/l	.025	0.0268	107.	79.5-118	WG773581
Dichlorodifluoromethane	mg/l	.025	0.0241	96.5	54.8-135	WG773581
Ethylbenzene	mg/l	.025	0.0260	104.	78.8-122	WG773581
Hexachloro-1,3-butadiene	mg/l	.025	0.0293	117.	64.7-129	WG773581
Isopropylbenzene	mg/l	.025	0.0267	107.	78.6-132	WG773581
Methyl tert-butyl ether	mg/l	.025	0.0247	98.6	71.2-126	WG773581
Methylene Chloride	mg/l	.025	0.0246	98.5	70.3-120	WG773581
n-Butylbenzene	mg/l	.025	0.0279	112.	76.2-126	WG773581
n-Propylbenzene	mg/l	.025	0.0268	107.	78.2-122	WG773581
Naphthalene	mg/l	.025	0.0298	119.	68.4-128	WG773581
p-Isopropyltoluene	mg/l	.025	0.0274	109.	74-131	WG773581
sec-Butylbenzene	mg/l	.025	0.0271	109.	74.4-127	WG773581
Styrene	mg/l	.025	0.0269	108.	80.4-126	WG773581
tert-Butylbenzene	mg/l	.025	0.0264	106.	75.3-126	WG773581
Tetrachloroethene	mg/l	.025	0.0264	105.	72.6-126	WG773581
Toluene	mg/l	.025	0.0257	103.	79.7-116	WG773581
trans-1,2-Dichloroethene	mg/l	.025	0.0262	105.	72.6-121	WG773581
trans-1,3-Dichloropropene	mg/l	.025	0.0275	110.	74.3-123	WG773581
Trichloroethene	mg/l	.025	0.0262	105.	77.7-118	WG773581
Trichlorofluoromethane	mg/l	.025	0.0274	110.	63.5-135	WG773581
Vinyl chloride	mg/l	.025	0.0244	97.4	65.9-128	WG773581
Xylenes, Total	mg/l	.075	0.0778	104.	78.7-121	WG773581
4-Bromofluorobenzene				96.30	71-126	WG773581
Dibromofluoromethane				98.10	78.3-121	WG773581
Toluene-d8				102.0	88.5-111	WG773581

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Quality Assurance Report
Level II

L750320

March 09, 2015

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Naphthalene	mg/l	.025	0.0223	89.1	68.4-128	WG773576
4-Bromofluorobenzene				102.0	71-126	WG773576
Dibromofluoromethane				94.40	78.3-121	WG773576
Toluene-d8				101.0	88.5-111	WG773576

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1-Methylnaphthalene	mg/l	0.00192	0.00204	96.0	73.2-141	6.40	20	WG772421
2-Chloronaphthalene	mg/l	0.00190	0.00198	95.0	74.2-135	3.87	20	WG772421
2-Methylnaphthalene	mg/l	0.00193	0.00202	96.0	72.4-141	4.83	20	WG772421
Acenaphthene	mg/l	0.00193	0.00202	96.0	76.2-136	4.39	20	WG772421
Acenaphthylene	mg/l	0.00194	0.00201	97.0	71.3-139	3.85	20	WG772421
Anthracene	mg/l	0.00204	0.00214	102.	77.3-144	4.92	20	WG772421
Benzo(a)anthracene	mg/l	0.00187	0.00198	94.0	71.4-142	5.38	20	WG772421
Benzo(a)pyrene	mg/l	0.00194	0.00203	97.0	70.8-140	4.24	20	WG772421
Benzo(b)fluoranthene	mg/l	0.00183	0.00208	92.0	68-142	12.9	20	WG772421
Benzo(g,h,i)perylene	mg/l	0.00204	0.00213	102.	62.8-146	4.51	20	WG772421
Benzo(k)fluoranthene	mg/l	0.00207	0.00199	104.	70.1-144	3.78	20	WG772421
Chrysene	mg/l	0.00198	0.00206	99.0	73.6-143	3.78	20	WG772421
Dibenz(a,h)anthracene	mg/l	0.00195	0.00206	97.0	56.1-147	5.88	20	WG772421
Fluoranthene	mg/l	0.00203	0.00214	102.	77.9-147	5.40	20	WG772421
Fluorene	mg/l	0.00188	0.00197	94.0	75.3-136	4.82	20	WG772421
Indeno(1,2,3-cd)pyrene	mg/l	0.00201	0.00211	101.	61.6-147	4.69	20	WG772421
Naphthalene	mg/l	0.00189	0.00200	95.0	72.2-137	5.30	20	WG772421
Phenanthrene	mg/l	0.00191	0.00199	95.0	76-133	4.02	20	WG772421
Pyrene	mg/l	0.00195	0.00205	98.0	73-139	4.85	20	WG772421
2-Fluorobiphenyl				93.40	57.7-153			WG772421
Nitrobenzene-d5				85.80	45.1-170			WG772421
p-Terphenyl-d14				97.50	53.2-156			WG772421
1,1,1,2-Tetrachloroethane	mg/l	0.0225	0.0205	90.0	74.2-124	9.34	20	WG772405
1,1,1-Trichloroethane	mg/l	0.0204	0.0190	81.0	73.2-123	6.74	20	WG772405
1,1,2,2-Tetrachloroethane	mg/l	0.0247	0.0210	99.0	70.7-122	16.1	20	WG772405
1,1,2-Trichloroethane	mg/l	0.0243	0.0220	97.0	77.7-118	9.87	20	WG772405
1,1,2-Trichlorotrifluoroethane	mg/l	0.0225	0.0212	90.0	67.2-143	5.99	20	WG772405
1,1-Dichloroethane	mg/l	0.0229	0.0219	92.0	70.7-126	4.65	20	WG772405
1,1-Dichloroethene	mg/l	0.0216	0.0200	86.0	67.8-129	7.60	20	WG772405
1,1-Dichloropropene	mg/l	0.0217	0.0206	87.0	73.1-125	4.93	20	WG772405
1,2,3-Trichlorobenzene	mg/l	0.0246	0.0230	98.0	64.9-135	7.01	20	WG772405
1,2,3-Trichloropropane	mg/l	0.0226	0.0193	90.0	71.8-121	16.0	20	WG772405
1,2,3-Trimethylbenzene	mg/l	0.0231	0.0222	92.0	72.3-116	3.75	20	WG772405
1,2,4-Trichlorobenzene	mg/l	0.0237	0.0224	95.0	69.7-136	5.87	20	WG772405
1,2,4-Trimethylbenzene	mg/l	0.0226	0.0205	90.0	75-123	9.66	20	WG772405
1,2-Dibromo-3-Chloropropane	mg/l	0.0250	0.0214	100.	65.4-128	15.3	20	WG772405
1,2-Dibromoethane	mg/l	0.0239	0.0211	96.0	76.6-121	12.7	20	WG772405
1,2-Dichlorobenzene	mg/l	0.0240	0.0224	96.0	78.4-117	6.69	20	WG772405
1,2-Dichloroethane	mg/l	0.0200	0.0186	80.0	68.8-124	7.18	20	WG772405
1,2-Dichloropropane	mg/l	0.0239	0.0223	96.0	76.5-119	6.82	20	WG772405
1,3,5-Trimethylbenzene	mg/l	0.0226	0.0206	90.0	75.6-124	9.43	20	WG772405
1,3-Dichlorobenzene	mg/l	0.0224	0.0201	90.0	70.8-128	11.0	20	WG772405
1,3-Dichloropropane	mg/l	0.0236	0.0211	94.0	77.4-117	11.5	20	WG772405
1,4-Dichlorobenzene	mg/l	0.0222	0.0213	89.0	78.8-115	4.29	20	WG772405
2,2-Dichloropropane	mg/l	0.0192	0.0169	77.0	62.4-133	12.5	20	WG772405
2-Butanone (MEK)	mg/l	0.0886	0.0774	71.0	55-149	13.6	20	WG772405
2-Chloroethyl vinyl ether	mg/l	0.114	0.0814	91.0	43.8-150	33.5*	20	WG772405
2-Chlorotoluene	mg/l	0.0232	0.0205	93.0	74.7-122	12.6	20	WG772405

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Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
4-Chlorotoluene	mg/l	0.0223	0.0201	89.0	77.5-120	9.95	20	WG772405
4-Methyl-2-pentanone (MIBK)	mg/l	0.113	0.0994	90.0	70.5-133	12.8	20	WG772405
Acetone	mg/l	0.0539	0.0474	43.0	35.6-163	12.7	23.9	WG772405
Acrolein	mg/l	0.101	0.0896	81.0	10-190	12.0	28.1	WG772405
Acrylonitrile	mg/l	0.121	0.107	96.0	55.2-130	12.2	20	WG772405
Benzene	mg/l	0.0234	0.0221	93.0	74.8-121	5.44	20	WG772405
Bromobenzene	mg/l	0.0224	0.0202	90.0	77.5-116	10.8	20	WG772405
Bromodichloromethane	mg/l	0.0216	0.0202	86.0	75.1-116	7.08	20	WG772405
Bromoform	mg/l	0.0222	0.0193	89.0	67.5-130	13.7	20	WG772405
Bromomethane	mg/l	0.0174	0.0165	70.0	49.9-162	5.44	20	WG772405
Carbon tetrachloride	mg/l	0.0191	0.0181	76.0	70.2-123	5.27	20	WG772405
Chlorobenzene	mg/l	0.0235	0.0212	94.0	78.1-119	9.98	20	WG772405
Chlorodibromomethane	mg/l	0.0230	0.0202	92.0	74-121	12.6	20	WG772405
Chloroethane	mg/l	0.0192	0.0181	77.0	61.7-135	6.35	20	WG772405
Chloroform	mg/l	0.0207	0.0195	83.0	76-121	6.28	20	WG772405
Chloromethane	mg/l	0.0223	0.0212	89.0	61.5-129	4.94	20	WG772405
cis-1,2-Dichloroethene	mg/l	0.0238	0.0225	95.0	76-119	5.61	20	WG772405
cis-1,3-Dichloropropene	mg/l	0.0225	0.0211	90.0	78.2-120	6.66	20	WG772405
Di-isopropyl ether	mg/l	0.0236	0.0220	94.0	65.6-132	7.35	20	WG772405
Dibromomethane	mg/l	0.0218	0.0200	87.0	79.5-118	8.87	20	WG772405
Dichlorodifluoromethane	mg/l	0.0180	0.0174	72.0	54.8-135	3.23	20	WG772405
Ethylbenzene	mg/l	0.0232	0.0213	93.0	78.8-122	8.87	20	WG772405
Hexachloro-1,3-butadiene	mg/l	0.0217	0.0210	87.0	64.7-129	3.05	20	WG772405
Isopropylbenzene	mg/l	0.0226	0.0206	90.0	78.6-132	9.52	20	WG772405
Methyl tert-butyl ether	mg/l	0.0240	0.0215	96.0	71.2-126	10.9	20	WG772405
Methylene Chloride	mg/l	0.0219	0.0205	88.0	70.3-120	6.54	20	WG772405
n-Butylbenzene	mg/l	0.0228	0.0221	91.0	76.2-126	3.29	20	WG772405
n-Propylbenzene	mg/l	0.0226	0.0206	90.0	78.2-122	9.24	20	WG772405
Naphthalene	mg/l	0.0255	0.0231	102.	68.4-128	9.65	20	WG772405
p-Isopropyltoluene	mg/l	0.0223	0.0204	89.0	74-131	9.22	20	WG772405
sec-Butylbenzene	mg/l	0.0226	0.0207	90.0	74.4-127	8.79	20	WG772405
Styrene	mg/l	0.0238	0.0211	95.0	80.4-126	12.1	20	WG772405
tert-Butylbenzene	mg/l	0.0226	0.0205	90.0	75.3-126	9.61	20	WG772405
Tetrachloroethene	mg/l	0.0214	0.0200	86.0	72.6-126	7.10	20	WG772405
Toluene	mg/l	0.0217	0.0207	87.0	79.7-116	4.49	20	WG772405
trans-1,2-Dichloroethene	mg/l	0.0231	0.0219	92.0	72.6-121	5.42	20	WG772405
trans-1,3-Dichloropropene	mg/l	0.0219	0.0201	88.0	74.3-123	8.54	20	WG772405
Trichloroethene	mg/l	0.0219	0.0210	88.0	77.7-118	4.26	20	WG772405
Trichlorofluoromethane	mg/l	0.0179	0.0174	72.0	63.5-135	3.05	20	WG772405
Vinyl chloride	mg/l	0.0207	0.0198	83.0	65.9-128	4.08	20	WG772405
Xylenes, Total	mg/l	0.0698	0.0634	93.0	78.7-121	9.65	20	WG772405
4-Bromofluorobenzene				100.0	71-126			WG772405
Dibromofluoromethane				97.50	78.3-121			WG772405
Toluene-d8				100.0	88.5-111			WG772405
1,1,1,2-Tetrachloroethane	mg/l	0.0269	0.0264	107.	74.2-124	1.75	20	WG773581
1,1,1-Trichloroethane	mg/l	0.0265	0.0263	106.	73.2-123	0.630	20	WG773581
1,1,2,2-Tetrachloroethane	mg/l	0.0294	0.0282	118.	70.7-122	4.23	20	WG773581
1,1,2-Trichloroethane	mg/l	0.0257	0.0248	103.	77.7-118	3.64	20	WG773581
1,1,2-Trichlorotrifluoroethane	mg/l	0.0247	0.0248	99.0	67.2-143	0.410	20	WG773581
1,1-Dichloroethane	mg/l	0.0254	0.0259	102.	70.7-126	1.90	20	WG773581
1,1-Dichloroethene	mg/l	0.0264	0.0273	106.	67.8-129	3.33	20	WG773581
1,1-Dichloropropene	mg/l	0.0249	0.0265	100.	73.1-125	6.38	20	WG773581
1,2,3-Trichlorobenzene	mg/l	0.0317	0.0305	127.	64.9-135	3.55	20	WG773581
1,2,3-Trichloropropane	mg/l	0.0276	0.0273	110.	71.8-121	1.31	20	WG773581
1,2,3-Trimethylbenzene	mg/l	0.0250	0.0256	100.	72.3-116	2.14	20	WG773581
1,2,4-Trichlorobenzene	mg/l	0.0317	0.0317	127.	69.7-136	0.160	20	WG773581
1,2,4-Trimethylbenzene	mg/l	0.0271	0.0269	108.	75-123	0.740	20	WG773581

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Tax I.D. 62-0814289

Est. 1970

USA Environment, LP
Craig Lugowski
17301 W. Colfax Avenue, Suite 152

Golden, CO 80401

Quality Assurance Report
Level II

L750320

March 09, 2015

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,2-Dibromo-3-Chloropropane	mg/l	0.0273	0.0272	109.	65.4-128	0.410	20	WG773581
1,2-Dibromoethane	mg/l	0.0270	0.0255	108.	76.6-121	5.79	20	WG773581
1,2-Dichlorobenzene	mg/l	0.0264	0.0268	106.	78.4-117	1.45	20	WG773581
1,2-Dichloroethane	mg/l	0.0256	0.0260	102.	68.8-124	1.73	20	WG773581
1,2-Dichloropropane	mg/l	0.0259	0.0257	104.	76.5-119	0.620	20	WG773581
1,3,5-Trimethylbenzene	mg/l	0.0267	0.0262	107.	75.6-124	1.90	20	WG773581
1,3-Dichlorobenzene	mg/l	0.0287	0.0282	115.	70.8-128	1.59	20	WG773581
1,3-Dichloropropane	mg/l	0.0251	0.0253	100.	77.4-117	0.860	20	WG773581
1,4-Dichlorobenzene	mg/l	0.0250	0.0254	100.	78.8-115	1.68	20	WG773581
2,2-Dichloropropane	mg/l	0.0260	0.0263	104.	62.4-133	1.12	20	WG773581
2-Butanone (MEK)	mg/l	0.133	0.130	106.	55-149	1.96	20	WG773581
2-Chloroethyl vinyl ether	mg/l	0.141	0.139	113.	43.8-150	1.65	20	WG773581
2-Chlorotoluene	mg/l	0.0255	0.0256	102.	74.7-122	0.420	20	WG773581
4-Chlorotoluene	mg/l	0.0271	0.0265	108.	77.5-120	2.04	20	WG773581
4-Methyl-2-pentanone (MIBK)	mg/l	0.138	0.134	110.	70.5-133	3.13	20	WG773581
Acetone	mg/l	0.137	0.138	109.	35.6-163	0.770	23.9	WG773581
Acrolein	mg/l	0.133	0.130	106.	10-190	2.18	28.1	WG773581
Acrylonitrile	mg/l	0.136	0.134	109.	55.2-130	2.14	20	WG773581
Benzene	mg/l	0.0247	0.0255	99.0	74.8-121	2.80	20	WG773581
Bromobenzene	mg/l	0.0260	0.0252	104.	77.5-116	2.96	20	WG773581
Bromodichloromethane	mg/l	0.0267	0.0271	107.	75.1-116	1.57	20	WG773581
Bromoform	mg/l	0.0270	0.0267	108.	67.5-130	1.14	20	WG773581
Bromomethane	mg/l	0.0256	0.0247	102.	49.9-162	3.57	20	WG773581
Carbon tetrachloride	mg/l	0.0256	0.0259	102.	70.2-123	1.30	20	WG773581
Chlorobenzene	mg/l	0.0258	0.0257	103.	78.1-119	0.180	20	WG773581
Chlorodibromomethane	mg/l	0.0269	0.0256	108.	74-121	5.00	20	WG773581
Chloroethane	mg/l	0.0250	0.0248	100.	61.7-135	1.04	20	WG773581
Chloroform	mg/l	0.0255	0.0258	102.	76-121	1.01	20	WG773581
Chloromethane	mg/l	0.0225	0.0227	90.0	61.5-129	0.500	20	WG773581
cis-1,2-Dichloroethene	mg/l	0.0251	0.0259	100.	76-119	3.45	20	WG773581
cis-1,3-Dichloropropene	mg/l	0.0261	0.0264	104.	78.2-120	1.10	20	WG773581
Di-isopropyl ether	mg/l	0.0244	0.0246	98.0	65.6-132	0.640	20	WG773581
Dibromomethane	mg/l	0.0268	0.0268	107.	79.5-118	0.130	20	WG773581
Dichlorodifluoromethane	mg/l	0.0237	0.0241	95.0	54.8-135	1.84	20	WG773581
Ethylbenzene	mg/l	0.0260	0.0260	104.	78.8-122	0.0100	20	WG773581
Hexachloro-1,3-butadiene	mg/l	0.0291	0.0293	116.	64.7-129	0.460	20	WG773581
Isopropylbenzene	mg/l	0.0270	0.0267	108.	78.6-132	1.01	20	WG773581
Methyl tert-butyl ether	mg/l	0.0250	0.0247	100.	71.2-126	1.40	20	WG773581
Methylene Chloride	mg/l	0.0243	0.0246	97.0	70.3-120	1.52	20	WG773581
n-Butylbenzene	mg/l	0.0276	0.0279	110.	76.2-126	1.18	20	WG773581
n-Propylbenzene	mg/l	0.0268	0.0268	107.	78.2-122	0.0400	20	WG773581
Naphthalene	mg/l	0.0324	0.0298	130*	68.4-128	8.39	20	WG773581
p-Isopropyltoluene	mg/l	0.0277	0.0274	111.	74-131	1.36	20	WG773581
sec-Butylbenzene	mg/l	0.0281	0.0271	112.	74.4-127	3.41	20	WG773581
Styrene	mg/l	0.0272	0.0269	109.	80.4-126	1.09	20	WG773581
tert-Butylbenzene	mg/l	0.0273	0.0264	109.	75.3-126	3.30	20	WG773581
Tetrachloroethene	mg/l	0.0268	0.0264	107.	72.6-126	1.50	20	WG773581
Toluene	mg/l	0.0248	0.0257	99.0	79.7-116	3.25	20	WG773581
trans-1,2-Dichloroethene	mg/l	0.0252	0.0262	101.	72.6-121	4.03	20	WG773581
trans-1,3-Dichloropropene	mg/l	0.0259	0.0275	104.	74.3-123	5.76	20	WG773581
Trichloroethene	mg/l	0.0253	0.0262	101.	77.7-118	3.78	20	WG773581
Trichlorofluoromethane	mg/l	0.0271	0.0274	108.	63.5-135	0.990	20	WG773581
Vinyl chloride	mg/l	0.0239	0.0244	96.0	65.9-128	1.93	20	WG773581
Xylenes, Total	mg/l	0.0785	0.0778	105.	78.7-121	0.850	20	WG773581
4-Bromofluorobenzene				101.0	71-126			WG773581
Dibromofluoromethane				98.00	78.3-121			WG773581
Toluene-d8				101.0	88.5-111			WG773581

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Quality Assurance Report
Level II

L750320

March 09, 2015

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Naphthalene	mg/l	0.0223	0.0223	89.0	68.4-128	0.310	20	WG773576
4-Bromofluorobenzene				99.80	71-126			WG773576
Dibromofluoromethane				94.40	78.3-121			WG773576
Toluene-d8				101.0	88.5-111			WG773576

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
2-Chloronaphthalene	mg/l	0.00196	0.0	.002	98.0	63.2-140	L750320-09	WG772421
2-Methylnaphthalene	mg/l	0.0297	0.0259	.002	190.*	43.8-160	L750320-09	WG772421
Acenaphthylene	mg/l	0.0586	0.0548	.002	190.*	64.3-149	L750320-09	WG772421
Anthracene	mg/l	0.0139	0.0117	.002	110.	77.5-149	L750320-09	WG772421
Benzo(a)anthracene	mg/l	0.00211	0.000134	.002	99.0	68.8-155	L750320-09	WG772421
Benzo(a)pyrene	mg/l	0.00194	0.0000092	.002	96.0	57.7-142	L750320-09	WG772421
Benzo(b)fluoranthene	mg/l	0.00186	0.0000119	.002	92.0	56.1-141	L750320-09	WG772421
Benzo(g,h,i)perylene	mg/l	0.00202	0.0000094	.002	100.	48.1-139	L750320-09	WG772421
Benzo(k)fluoranthene	mg/l	0.00198	0.0000033	.002	99.0	50.8-142	L750320-09	WG772421
Chrysene	mg/l	0.00212	0.0000947	.002	100.	62.5-140	L750320-09	WG772421
Dibenz(a,h)anthracene	mg/l	0.00196	0.0000025	.002	98.0	41.2-145	L750320-09	WG772421
Fluoranthene	mg/l	0.00596	0.00369	.002	110.	76.5-153	L750320-09	WG772421
Fluorene	mg/l	0.0113	0.00874	.002	130.	55.6-154	L750320-09	WG772421
Indeno(1,2,3-cd)pyrene	mg/l	0.00200	0.0000076	.002	100.	44.3-146	L750320-09	WG772421
Phenanthrene	mg/l	0.0621	0.0585	.002	180.*	70-141	L750320-09	WG772421
Pyrene	mg/l	0.00775	0.00544	.002	120.	70.4-146	L750320-09	WG772421
2-Fluorobiphenyl					91.20	57.7-153		WG772421
Nitrobenzene-d5					103.0	45.1-170		WG772421
p-Terphenyl-d14					99.50	53.2-156		WG772421
1,1,1,2-Tetrachloroethane	mg/l	0.0245	0.0	.025	98.0	64-128	L750028-08	WG772403
1,1,1-Trichloroethane	mg/l	0.0242	0.0	.025	97.0	58.7-134	L750028-08	WG772403
1,1,2,2-Tetrachloroethane	mg/l	0.0277	0.0	.025	110.	56-132	L750028-08	WG772403
1,1,2-Trichloroethane	mg/l	0.0237	0.0	.025	95.0	66.3-125	L750028-08	WG772403
1,1,2-Trichlorotrifluoroethane	mg/l	0.0250	0.0	.025	100.	54.8-154	L750028-08	WG772403
1,1-Dichloroethane	mg/l	0.0250	0.0	.025	100.	58.5-132	L750028-08	WG772403
1,1-Dichloroethene	mg/l	0.0244	0.0	.025	98.0	51.1-140	L750028-08	WG772403
1,1-Dichloropropene	mg/l	0.0244	0.0	.025	98.0	57.3-136	L750028-08	WG772403
1,2,3-Trichlorobenzene	mg/l	0.0247	0.0	.025	99.0	59.1-138	L750028-08	WG772403
1,2,3-Trichloropropane	mg/l	0.0235	0.0	.025	94.0	61.4-128	L750028-08	WG772403
1,2,3-Trimethylbenzene	mg/l	0.0231	0.0	.025	92.0	61.3-122	L750028-08	WG772403
1,2,4-Trichlorobenzene	mg/l	0.0251	0.0	.025	100.	63.6-143	L750028-08	WG772403
1,2,4-Trimethylbenzene	mg/l	0.0214	0.0	.025	86.0	57.4-137	L750028-08	WG772403
1,2-Dibromo-3-Chloropropane	mg/l	0.0241	0.0	.025	96.0	57.3-136	L750028-08	WG772403
1,2-Dibromoethane	mg/l	0.0242	0.0	.025	97.0	67.1-125	L750028-08	WG772403
1,2-Dichlorobenzene	mg/l	0.0231	0.0	.025	92.0	68.2-123	L750028-08	WG772403
1,2-Dichloroethane	mg/l	0.0218	0.0	.025	87.0	60-126	L750028-08	WG772403
1,2-Dichloropropane	mg/l	0.0262	0.0	.025	100.	64.2-123	L750028-08	WG772403
1,3,5-Trimethylbenzene	mg/l	0.0221	0.0	.025	89.0	63.6-132	L750028-08	WG772403
1,3-Dichlorobenzene	mg/l	0.0221	0.0	.025	88.0	63.1-131	L750028-08	WG772403
1,3-Dichloropropane	mg/l	0.0229	0.0	.025	92.0	67.9-121	L750028-08	WG772403
1,4-Dichlorobenzene	mg/l	0.0234	0.0	.025	94.0	68.6-123	L750028-08	WG772403
2,2-Dichloropropane	mg/l	0.0238	0.0	.025	95.0	50.5-144	L750028-08	WG772403
2-Butanone (MEK)	mg/l	0.143	0.0	.125	120.	22.4-138	L750028-08	WG772403
2-Chloroethyl vinyl ether	mg/l	0.0	0.0	.125	0.0*	10-155	L750028-08	WG772403
2-Chlorotoluene	mg/l	0.0214	0.0	.025	86.0	63.6-128	L750028-08	WG772403
4-Chlorotoluene	mg/l	0.0223	0.0	.025	89.0	65.7-127	L750028-08	WG772403
4-Methyl-2-pentanone (MIBK)	mg/l	0.146	0.0	.125	120.	60.8-140	L750028-08	WG772403
Acetone	mg/l	0.120	0.00165	.125	94.0	10-130	L750028-08	WG772403
Acrolein	mg/l	0.144	0.0	.125	120.	10-200	L750028-08	WG772403

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Acrylonitrile	mg/l	0.141	0.0	.125	110.	49.4-133	L750028-08	WG772403
Benzene	mg/l	0.0222	0.0	.025	89.0	54.3-133	L750028-08	WG772403
Bromobenzene	mg/l	0.0229	0.0	.025	92.0	63.9-124	L750028-08	WG772403
Bromodichloromethane	mg/l	0.0251	0.000343	.025	99.0	63.9-121	L750028-08	WG772403
Bromoform	mg/l	0.0258	0.0	.025	100.	59.5-134	L750028-08	WG772403
Bromomethane	mg/l	0.0339	0.0	.025	140.	41.7-155	L750028-08	WG772403
Carbon tetrachloride	mg/l	0.0245	0.0	.025	98.0	55.7-134	L750028-08	WG772403
Chlorobenzene	mg/l	0.0231	0.0	.025	92.0	67-125	L750028-08	WG772403
Chlorodibromomethane	mg/l	0.0246	0.0	.025	98.0	64.3-125	L750028-08	WG772403
Chloroethane	mg/l	0.0386	0.0	.025	150.*	51.5-136	L750028-08	WG772403
Chloroform	mg/l	0.0240	0.000979	.025	92.0	63-129	L750028-08	WG772403
Chloromethane	mg/l	0.0268	0.0	.025	110.	42.4-135	L750028-08	WG772403
cis-1,2-Dichloroethene	mg/l	0.0236	0.0	.025	94.0	59.2-129	L750028-08	WG772403
cis-1,3-Dichloropropene	mg/l	0.0244	0.0	.025	98.0	66.4-125	L750028-08	WG772403
Di-isopropyl ether	mg/l	0.0275	0.0	.025	110.	56.9-136	L750028-08	WG772403
Dibromomethane	mg/l	0.0246	0.0	.025	98.0	68.2-124	L750028-08	WG772403
Dichlorodifluoromethane	mg/l	0.0220	0.0	.025	88.0	40.6-144	L750028-08	WG772403
Ethylbenzene	mg/l	0.0229	0.0	.025	92.0	61.4-133	L750028-08	WG772403
Hexachloro-1,3-butadiene	mg/l	0.0255	0.0	.025	100.	55.1-136	L750028-08	WG772403
Isopropylbenzene	mg/l	0.0227	0.0	.025	91.0	66.8-141	L750028-08	WG772403
Methyl tert-butyl ether	mg/l	0.0233	0.0	.025	93.0	57.7-134	L750028-08	WG772403
Methylene Chloride	mg/l	0.0224	0.000390	.025	88.0	58.1-122	L750028-08	WG772403
n-Butylbenzene	mg/l	0.0253	0.0	.025	100.	62.7-140	L750028-08	WG772403
n-Propylbenzene	mg/l	0.0231	0.0	.025	92.0	65.9-131	L750028-08	WG772403
Naphthalene	mg/l	0.0244	0.00219	.025	89.0	58-135	L750028-08	WG772403
p-Isopropyltoluene	mg/l	0.0229	0.0	.025	92.0	63.2-139	L750028-08	WG772403
sec-Butylbenzene	mg/l	0.0226	0.0	.025	91.0	62.2-136	L750028-08	WG772403
Styrene	mg/l	0.0227	0.0	.025	91.0	66.8-133	L750028-08	WG772403
tert-Butylbenzene	mg/l	0.0228	0.0	.025	91.0	63.3-134	L750028-08	WG772403
Tetrachloroethene	mg/l	0.0237	0.0	.025	95.0	53-139	L750028-08	WG772403
Toluene	mg/l	0.0234	0.0	.025	94.0	61.4-130	L750028-08	WG772403
trans-1,2-Dichloroethene	mg/l	0.0238	0.0	.025	95.0	56.5-129	L750028-08	WG772403
trans-1,3-Dichloropropene	mg/l	0.0245	0.0	.025	98.0	64.1-128	L750028-08	WG772403
Trichloroethene	mg/l	0.0227	0.0	.025	91.0	44.1-149	L750028-08	WG772403
Trichlorofluoromethane	mg/l	0.0273	0.0	.025	110.	49.6-145	L750028-08	WG772403
Vinyl chloride	mg/l	0.0274	0.0	.025	110.	47.8-137	L750028-08	WG772403
Xylenes, Total	mg/l	0.0673	0.0	.075	90.0	63.3-131	L750028-08	WG772403
4-Bromofluorobenzene					94.40	71-126		WG772403
Dibromofluoromethane					106.0	78.3-121		WG772403
Toluene-d8					103.0	88.5-111		WG772403
1,1,1,2-Tetrachloroethane	mg/l	0.0208	0.0	.025	83.0	64-128	L750320-09	WG772405
1,1,1-Trichloroethane	mg/l	0.0188	0.0	.025	75.0	58.7-134	L750320-09	WG772405
1,1,2,2-Tetrachloroethane	mg/l	0.0237	0.0	.025	95.0	56-132	L750320-09	WG772405
1,1,2-Trichloroethane	mg/l	0.0230	0.0	.025	92.0	66.3-125	L750320-09	WG772405
1,1,2-Trichlorotrifluoroethane	mg/l	0.0207	0.0	.025	83.0	54.8-154	L750320-09	WG772405
1,1-Dichloroethane	mg/l	0.0218	0.0	.025	87.0	58.5-132	L750320-09	WG772405
1,1-Dichloroethene	mg/l	0.0196	0.0	.025	78.0	51.1-140	L750320-09	WG772405
1,1-Dichloropropene	mg/l	0.0203	0.0	.025	81.0	57.3-136	L750320-09	WG772405
1,2,3-Trichlorobenzene	mg/l	0.0221	0.0	.025	88.0	59.1-138	L750320-09	WG772405
1,2,3-Trichloropropane	mg/l	0.0211	0.0	.025	84.0	61.4-128	L750320-09	WG772405
1,2,3-Trimethylbenzene	mg/l	0.0367	0.0184	.025	73.0	61.3-122	L750320-09	WG772405
1,2,4-Trichlorobenzene	mg/l	0.0223	0.0	.025	89.0	63.6-143	L750320-09	WG772405
1,2,4-Trimethylbenzene	mg/l	0.0393	0.0239	.025	62.0	57.4-137	L750320-09	WG772405
1,2-Dibromo-3-Chloropropane	mg/l	0.0252	0.0	.025	100.	57.3-136	L750320-09	WG772405
1,2-Dibromoethane	mg/l	0.0227	0.0	.025	91.0	67.1-125	L750320-09	WG772405
1,2-Dichlorobenzene	mg/l	0.0228	0.0	.025	91.0	68.2-123	L750320-09	WG772405
1,2-Dichloroethane	mg/l	0.0197	0.0	.025	79.0	60-126	L750320-09	WG772405

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Golden, CO 80401

Quality Assurance Report
Level II

L750320

March 09, 2015

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2-Dichloropropane	mg/l	0.0227	0.0	.025	91.0	64.2-123	L750320-09	WG772405
1,3,5-Trimethylbenzene	mg/l	0.0245	0.00554	.025	76.0	63.6-132	L750320-09	WG772405
1,3-Dichlorobenzene	mg/l	0.0203	0.0	.025	81.0	63.1-131	L750320-09	WG772405
1,3-Dichloropropane	mg/l	0.0224	0.0	.025	90.0	67.9-121	L750320-09	WG772405
1,4-Dichlorobenzene	mg/l	0.0213	0.0	.025	85.0	68.6-123	L750320-09	WG772405
2,2-Dichloropropane	mg/l	0.0172	0.0	.025	69.0	50.5-144	L750320-09	WG772405
2-Butanone (MEK)	mg/l	0.0878	0.0	.125	70.0	22.4-138	L750320-09	WG772405
2-Chloroethyl vinyl ether	mg/l	0.0124	0.0	.125	9.90*	10-155	L750320-09	WG772405
2-Chlorotoluene	mg/l	0.0208	0.0	.025	83.0	63.6-128	L750320-09	WG772405
4-Chlorotoluene	mg/l	0.0204	0.0	.025	82.0	65.7-127	L750320-09	WG772405
4-Methyl-2-pentanone (MIBK)	mg/l	0.111	0.0	.125	89.0	60.8-140	L750320-09	WG772405
Acetone	mg/l	0.0536	0.00484	.125	39.0	10-130	L750320-09	WG772405
Acrolein	mg/l	0.109	0.0	.125	87.0	10-200	L750320-09	WG772405
Acrylonitrile	mg/l	0.122	0.0	.125	98.0	49.4-133	L750320-09	WG772405
Benzene	mg/l	0.0318	0.0121	.025	79.0	54.3-133	L750320-09	WG772405
Bromobenzene	mg/l	0.0207	0.0	.025	83.0	63.9-124	L750320-09	WG772405
Bromodichloromethane	mg/l	0.0209	0.0	.025	84.0	63.9-121	L750320-09	WG772405
Bromoform	mg/l	0.0211	0.0	.025	84.0	59.5-134	L750320-09	WG772405
Bromomethane	mg/l	0.0155	0.0	.025	62.0	41.7-155	L750320-09	WG772405
Carbon tetrachloride	mg/l	0.0179	0.0	.025	72.0	55.7-134	L750320-09	WG772405
Chlorobenzene	mg/l	0.0217	0.0	.025	87.0	67-125	L750320-09	WG772405
Chlorodibromomethane	mg/l	0.0214	0.0	.025	86.0	64.3-125	L750320-09	WG772405
Chloroethane	mg/l	0.0163	0.0	.025	65.0	51.5-136	L750320-09	WG772405
Chloroform	mg/l	0.0200	0.0	.025	80.0	63-129	L750320-09	WG772405
Chloromethane	mg/l	0.0199	0.0	.025	80.0	42.4-135	L750320-09	WG772405
cis-1,2-Dichloroethene	mg/l	0.0226	0.0	.025	90.0	59.2-129	L750320-09	WG772405
cis-1,3-Dichloropropene	mg/l	0.0215	0.0	.025	86.0	66.4-125	L750320-09	WG772405
Di-isopropyl ether	mg/l	0.0226	0.0	.025	90.0	56.9-136	L750320-09	WG772405
Dibromomethane	mg/l	0.0208	0.0	.025	83.0	68.2-124	L750320-09	WG772405
Dichlorodifluoromethane	mg/l	0.0168	0.0	.025	67.0	40.6-144	L750320-09	WG772405
Ethylbenzene	mg/l	0.0459	0.0312	.025	59.0*	61.4-133	L750320-09	WG772405
Hexachloro-1,3-butadiene	mg/l	0.0183	0.0	.025	73.0	55.1-136	L750320-09	WG772405
Isopropylbenzene	mg/l	0.0274	0.00935	.025	72.0	66.8-141	L750320-09	WG772405
Methyl tert-butyl ether	mg/l	0.0231	0.0	.025	92.0	57.7-134	L750320-09	WG772405
Methylene Chloride	mg/l	0.0211	0.0	.025	84.0	58.1-122	L750320-09	WG772405
n-Butylbenzene	mg/l	0.0218	0.000588	.025	85.0	62.7-140	L750320-09	WG772405
n-Propylbenzene	mg/l	0.0217	0.00190	.025	79.0	65.9-131	L750320-09	WG772405
Naphthalene	mg/l	0.429	0.476	.025	0.0*	58-135	L750320-09	WG772405
p-Isopropyltoluene	mg/l	0.0209	0.0	.025	84.0	63.2-139	L750320-09	WG772405
sec-Butylbenzene	mg/l	0.0196	0.0	.025	79.0	62.2-136	L750320-09	WG772405
Styrene	mg/l	0.0218	0.0	.025	87.0	66.8-133	L750320-09	WG772405
tert-Butylbenzene	mg/l	0.0196	0.0	.025	78.0	63.3-134	L750320-09	WG772405
Tetrachloroethene	mg/l	0.0194	0.0	.025	78.0	53-139	L750320-09	WG772405
Toluene	mg/l	0.0234	0.00352	.025	79.0	61.4-130	L750320-09	WG772405
trans-1,2-Dichloroethene	mg/l	0.0216	0.0	.025	86.0	56.5-129	L750320-09	WG772405
trans-1,3-Dichloropropene	mg/l	0.0210	0.0	.025	84.0	64.1-128	L750320-09	WG772405
Trichloroethene	mg/l	0.0201	0.0	.025	80.0	44.1-149	L750320-09	WG772405
Trichlorofluoromethane	mg/l	0.0159	0.0	.025	64.0	49.6-145	L750320-09	WG772405
Vinyl chloride	mg/l	0.0184	0.0	.025	74.0	47.8-137	L750320-09	WG772405
Xylenes, Total	mg/l	0.0942	0.0388	.075	74.0	63.3-131	L750320-09	WG772405
4-Bromofluorobenzene					96.50	71-126		WG772405
Dibromofluoromethane					98.90	78.3-121		WG772405
Toluene-d8					99.50	88.5-111		WG772405
1-Methylnaphthalene	mg/l	0.577	0.565	.0002	590.*	65-145	L750320-09	WG772421
Acenaphthene	mg/l	0.183	0.175	.0002	410.*	53.5-156	L750320-09	WG772421
Naphthalene	mg/l	0.400	0.378	.0002	1100*	58.9-141	L750320-09	WG772421

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Quality Assurance Report
Level II

L750320

March 09, 2015

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0249	0.0	.025	100.	64-128	L750131-07	WG773581
1,1,1-Trichloroethane	mg/l	0.0247	0.0	.025	99.0	58.7-134	L750131-07	WG773581
1,1,2,2-Tetrachloroethane	mg/l	0.0287	0.0	.025	120.	56-132	L750131-07	WG773581
1,1,2-Trichloroethane	mg/l	0.0253	0.0	.025	100.	66.3-125	L750131-07	WG773581
1,1,2-Trichlorotrifluoroethane	mg/l	0.0233	0.0	.025	93.0	54.8-154	L750131-07	WG773581
1,1-Dichloroethane	mg/l	0.0240	0.0	.025	96.0	58.5-132	L750131-07	WG773581
1,1-Dichloroethene	mg/l	0.0244	0.0	.025	98.0	51.1-140	L750131-07	WG773581
1,1-Dichloropropene	mg/l	0.0237	0.0	.025	95.0	57.3-136	L750131-07	WG773581
1,2,3-Trichlorobenzene	mg/l	0.0244	0.0	.025	98.0	59.1-138	L750131-07	WG773581
1,2,3-Trichloropropane	mg/l	0.0273	0.0	.025	110.	61.4-128	L750131-07	WG773581
1,2,3-Trimethylbenzene	mg/l	0.0220	0.0	.025	88.0	61.3-122	L750131-07	WG773581
1,2,4-Trichlorobenzene	mg/l	0.0237	0.0	.025	95.0	63.6-143	L750131-07	WG773581
1,2,4-Trimethylbenzene	mg/l	0.0230	0.0	.025	92.0	57.4-137	L750131-07	WG773581
1,2-Dibromo-3-Chloropropane	mg/l	0.0291	0.0	.025	120.	57.3-136	L750131-07	WG773581
1,2-Dibromoethane	mg/l	0.0266	0.0	.025	110.	67.1-125	L750131-07	WG773581
1,2-Dichlorobenzene	mg/l	0.0232	0.0	.025	93.0	68.2-123	L750131-07	WG773581
1,2-Dichloroethane	mg/l	0.0358	0.0135	.025	89.0	60-126	L750131-07	WG773581
1,2-Dichloropropane	mg/l	0.0248	0.000955	.025	95.0	64.2-123	L750131-07	WG773581
1,3,5-Trimethylbenzene	mg/l	0.0230	0.0	.025	92.0	63.6-132	L750131-07	WG773581
1,3-Dichlorobenzene	mg/l	0.0243	0.0	.025	97.0	63.1-131	L750131-07	WG773581
1,3-Dichloropropane	mg/l	0.0245	0.0	.025	98.0	67.9-121	L750131-07	WG773581
1,4-Dichlorobenzene	mg/l	0.0223	0.0	.025	89.0	68.6-123	L750131-07	WG773581
2,2-Dichloropropane	mg/l	0.0240	0.0	.025	96.0	50.5-144	L750131-07	WG773581
2-Butanone (MEK)	mg/l	0.153	0.00291	.125	120.	22.4-138	L750131-07	WG773581
2-Chloroethyl vinyl ether	mg/l	0.0725	0.0	.125	58.0	10-155	L750131-07	WG773581
2-Chlorotoluene	mg/l	0.0227	0.0	.025	91.0	63.6-128	L750131-07	WG773581
4-Chlorotoluene	mg/l	0.0238	0.0	.025	95.0	65.7-127	L750131-07	WG773581
4-Methyl-2-pentanone (MIBK)	mg/l	0.147	0.0	.125	120.	60.8-140	L750131-07	WG773581
Acetone	mg/l	0.171	0.00784	.125	130.	10-130	L750131-07	WG773581
Acrolein	mg/l	0.143	0.0	.125	120.	10-200	L750131-07	WG773581
Acrylonitrile	mg/l	0.155	0.0	.125	120.	49.4-133	L750131-07	WG773581
Benzene	mg/l	0.0281	0.00673	.025	85.0	54.3-133	L750131-07	WG773581
Bromobenzene	mg/l	0.0234	0.0	.025	94.0	63.9-124	L750131-07	WG773581
Bromodichloromethane	mg/l	0.0251	0.0	.025	100.	63.9-121	L750131-07	WG773581
Bromoform	mg/l	0.0273	0.0	.025	110.	59.5-134	L750131-07	WG773581
Bromomethane	mg/l	0.0230	0.0	.025	92.0	41.7-155	L750131-07	WG773581
Carbon tetrachloride	mg/l	0.0242	0.0	.025	97.0	55.7-134	L750131-07	WG773581
Chlorobenzene	mg/l	0.0239	0.0	.025	96.0	67-125	L750131-07	WG773581
Chlorodibromomethane	mg/l	0.0250	0.0	.025	100.	64.3-125	L750131-07	WG773581
Chloroethane	mg/l	0.0229	0.0	.025	92.0	51.5-136	L750131-07	WG773581
Chloroform	mg/l	0.0243	0.0	.025	97.0	63-129	L750131-07	WG773581
Chloromethane	mg/l	0.0200	0.0	.025	80.0	42.4-135	L750131-07	WG773581
cis-1,2-Dichloroethene	mg/l	0.0242	0.0	.025	97.0	59.2-129	L750131-07	WG773581
cis-1,3-Dichloropropene	mg/l	0.0251	0.0	.025	100.	66.4-125	L750131-07	WG773581
Di-isopropyl ether	mg/l	0.0231	0.0	.025	92.0	56.9-136	L750131-07	WG773581
Dibromomethane	mg/l	0.0263	0.0	.025	100.	68.2-124	L750131-07	WG773581
Dichlorodifluoromethane	mg/l	0.0223	0.0	.025	89.0	40.6-144	L750131-07	WG773581
Ethylbenzene	mg/l	0.0236	0.0	.025	94.0	61.4-133	L750131-07	WG773581
Hexachloro-1,3-butadiene	mg/l	0.0214	0.0	.025	86.0	55.1-136	L750131-07	WG773581
Isopropylbenzene	mg/l	0.0240	0.0	.025	96.0	66.8-141	L750131-07	WG773581
Methyl tert-butyl ether	mg/l	0.0266	0.00164	.025	100.	57.7-134	L750131-07	WG773581
Methylene Chloride	mg/l	0.0232	0.0	.025	93.0	58.1-122	L750131-07	WG773581
n-Butylbenzene	mg/l	0.0234	0.0	.025	94.0	62.7-140	L750131-07	WG773581
n-Propylbenzene	mg/l	0.0235	0.0	.025	94.0	65.9-131	L750131-07	WG773581
Naphthalene	mg/l	0.0265	0.0	.025	110.	58-135	L750131-07	WG773581
p-Isopropyltoluene	mg/l	0.0232	0.0	.025	93.0	63.2-139	L750131-07	WG773581
sec-Butylbenzene	mg/l	0.0237	0.000478	.025	93.0	62.2-136	L750131-07	WG773581
Styrene	mg/l	0.0244	0.0	.025	98.0	66.8-133	L750131-07	WG773581

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Quality Assurance Report
Level II

L750320

March 09, 2015

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
			Matrix Spike					
tert-Butylbenzene	mg/l	0.0234	0.0	.025	94.0	63.3-134	L750131-07	WG773581
Tetrachloroethene	mg/l	0.0253	0.0	.025	100.	53-139	L750131-07	WG773581
Toluene	mg/l	0.0235	0.0	.025	94.0	61.4-130	L750131-07	WG773581
trans-1,2-Dichloroethene	mg/l	0.0238	0.0	.025	95.0	56.5-129	L750131-07	WG773581
trans-1,3-Dichloropropene	mg/l	0.0264	0.0	.025	110.	64.1-128	L750131-07	WG773581
Trichloroethene	mg/l	0.0230	0.0	.025	92.0	44.1-149	L750131-07	WG773581
Trichlorofluoromethane	mg/l	0.0258	0.0	.025	100.	49.6-145	L750131-07	WG773581
Vinyl chloride	mg/l	0.0231	0.0	.025	92.0	47.8-137	L750131-07	WG773581
Xylenes, Total	mg/l	0.0710	0.000320	.075	94.0	63.3-131	L750131-07	WG773581
4-Bromofluorobenzene					101.0	71-126		WG773581
Dibromofluoromethane					98.40	78.3-121		WG773581
Toluene-d8					101.0	88.5-111		WG773581
Naphthalene	mg/l	0.0232	0.0	.025	93.0	58-135	L750222-02	WG773576
4-Bromofluorobenzene					102.0	71-126		WG773576
Dibromofluoromethane					95.80	78.3-121		WG773576
Toluene-d8					101.0	88.5-111		WG773576

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
			Matrix Spike Duplicate						
2-Chloronaphthalene	mg/l	0.00190	0.00196	95.2	63.2-140	2.68	20	L750320-09	WG772421
2-Methylnaphthalene	mg/l	0.0294	0.0297	178.*	43.8-160	0.790	20	L750320-09	WG772421
Acenaphthylene	mg/l	0.0574	0.0586	132.	64.3-149	2.04	20	L750320-09	WG772421
Anthracene	mg/l	0.0139	0.0139	108.	77.5-149	0.180	20	L750320-09	WG772421
Benzo(a)anthracene	mg/l	0.00204	0.00211	95.5	68.8-155	3.33	20	L750320-09	WG772421
Benzo(a)pyrene	mg/l	0.00190	0.00194	94.3	57.7-142	2.12	20	L750320-09	WG772421
Benzo(b)fluoranthene	mg/l	0.00183	0.00186	90.8	56.1-141	1.47	25.6	L750320-09	WG772421
Benzo(g,h,i)perylene	mg/l	0.00196	0.00202	97.5	48.1-139	3.10	29.5	L750320-09	WG772421
Benzo(k)fluoranthene	mg/l	0.00190	0.00198	95.0	50.8-142	4.17	20	L750320-09	WG772421
Chrysene	mg/l	0.00208	0.00212	99.2	62.5-140	1.96	20	L750320-09	WG772421
Dibenz(a,h)anthracene	mg/l	0.00190	0.00196	95.1	41.2-145	3.07	32.5	L750320-09	WG772421
Fluoranthene	mg/l	0.00594	0.00596	112.	76.5-153	0.400	20	L750320-09	WG772421
Fluorene	mg/l	0.0112	0.0113	124.	55.6-154	0.410	20	L750320-09	WG772421
Indeno(1,2,3-cd)pyrene	mg/l	0.00193	0.00200	96.3	44.3-146	3.23	31.4	L750320-09	WG772421
Phenanthrene	mg/l	0.0633	0.0621	241.*	70-141	1.91	20	L750320-09	WG772421
Pyrene	mg/l	0.00766	0.00775	111.	70.4-146	1.21	20	L750320-09	WG772421
2-Fluorobiphenyl				89.20	57.7-153				WG772421
Nitrobenzene-d5				103.0	45.1-170				WG772421
p-Terphenyl-d14				98.10	53.2-156				WG772421
1,1,1,2-Tetrachloroethane	mg/l	0.0243	0.0245	97.3	64-128	0.550	20	L750028-08	WG772403
1,1,1-Trichloroethane	mg/l	0.0236	0.0242	94.2	58.7-134	2.47	20	L750028-08	WG772403
1,1,2,2-Tetrachloroethane	mg/l	0.0272	0.0277	109.	56-132	1.71	22.2	L750028-08	WG772403
1,1,2-Trichloroethane	mg/l	0.0229	0.0237	91.7	66.3-125	3.28	20	L750028-08	WG772403
1,1,2-Trichlorotrifluoroethane	mg/l	0.0242	0.0250	96.7	54.8-154	3.41	22.5	L750028-08	WG772403
1,1-Dichloroethane	mg/l	0.0246	0.0250	98.4	58.5-132	1.57	20	L750028-08	WG772403
1,1-Dichloroethene	mg/l	0.0243	0.0244	97.0	51.1-140	0.510	20.2	L750028-08	WG772403
1,1-Dichloropropene	mg/l	0.0238	0.0244	95.1	57.3-136	2.48	20	L750028-08	WG772403
1,2,3-Trichlorobenzene	mg/l	0.0259	0.0247	104.	59.1-138	4.72	23.7	L750028-08	WG772403
1,2,3-Trichloropropane	mg/l	0.0241	0.0235	96.2	61.4-128	2.22	22.4	L750028-08	WG772403
1,2,3-Trimethylbenzene	mg/l	0.0231	0.0231	92.6	61.3-122	0.100	20	L750028-08	WG772403
1,2,4-Trichlorobenzene	mg/l	0.0259	0.0251	104.	63.6-143	3.19	21.9	L750028-08	WG772403
1,2,4-Trimethylbenzene	mg/l	0.0212	0.0214	84.7	57.4-137	1.00	20	L750028-08	WG772403
1,2-Dibromo-3-Chloropropane	mg/l	0.0256	0.0241	102.	57.3-136	5.96	27	L750028-08	WG772403
1,2-Dibromoethane	mg/l	0.0239	0.0242	95.8	67.1-125	1.11	20	L750028-08	WG772403
1,2-Dichlorobenzene	mg/l	0.0234	0.0231	93.7	68.2-123	1.55	20	L750028-08	WG772403

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17301 W. Colfax Avenue, Suite 152

Golden, CO 80401

Quality Assurance Report
Level II

L750320

March 09, 2015

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,2-Dichloroethane	mg/l	0.0217	0.0218	86.9	60-126	0.450	20	L750028-08	WG772403
1,2-Dichloropropane	mg/l	0.0260	0.0262	104.	64.2-123	0.430	20	L750028-08	WG772403
1,3,5-Trimethylbenzene	mg/l	0.0218	0.0221	87.0	63.6-132	1.75	20.5	L750028-08	WG772403
1,3-Dichlorobenzene	mg/l	0.0217	0.0221	86.9	63.1-131	1.79	20	L750028-08	WG772403
1,3-Dichloropropane	mg/l	0.0219	0.0229	87.4	67.9-121	4.87	20	L750028-08	WG772403
1,4-Dichlorobenzene	mg/l	0.0234	0.0234	93.4	68.6-123	0.0500	20	L750028-08	WG772403
2,2-Dichloropropane	mg/l	0.0234	0.0238	93.8	50.5-144	1.47	21.9	L750028-08	WG772403
2-Butanone (MEK)	mg/l	0.142	0.143	113.	22.4-138	1.05	27	L750028-08	WG772403
2-Chloroethyl vinyl ether	mg/l	0.00352	0.0	2.82*	10-155	200.*	20	L750028-08	WG772403
2-Chlorotoluene	mg/l	0.0209	0.0214	83.4	63.6-128	2.61	20	L750028-08	WG772403
4-Chlorotoluene	mg/l	0.0218	0.0223	87.2	65.7-127	2.09	20	L750028-08	WG772403
4-Methyl-2-pentanone (MIBK)	mg/l	0.147	0.146	118.	60.8-140	0.960	25.1	L750028-08	WG772403
Acetone	mg/l	0.122	0.120	96.3	10-130	1.95	27.9	L750028-08	WG772403
Acrolein	mg/l	0.143	0.144	114.	10-200	0.470	27.7	L750028-08	WG772403
Acrylonitrile	mg/l	0.140	0.141	112.	49.4-133	1.14	25.3	L750028-08	WG772403
Benzene	mg/l	0.0218	0.0222	87.2	54.3-133	2.01	20	L750028-08	WG772403
Bromobenzene	mg/l	0.0227	0.0229	90.9	63.9-124	0.850	20	L750028-08	WG772403
Bromodichloromethane	mg/l	0.0243	0.0251	95.8	63.9-121	3.13	20	L750028-08	WG772403
Bromoform	mg/l	0.0253	0.0258	101.	59.5-134	2.20	20.5	L750028-08	WG772403
Bromomethane	mg/l	0.0337	0.0339	135.	41.7-155	0.580	21.9	L750028-08	WG772403
Carbon tetrachloride	mg/l	0.0237	0.0245	94.9	55.7-134	3.10	20	L750028-08	WG772403
Chlorobenzene	mg/l	0.0224	0.0231	89.5	67-125	3.12	20	L750028-08	WG772403
Chlorodibromomethane	mg/l	0.0240	0.0246	96.2	64.3-125	2.13	20.8	L750028-08	WG772403
Chloroethane	mg/l	0.0379	0.0386	152.*	51.5-136	1.66	40	L750028-08	WG772403
Chloroform	mg/l	0.0237	0.0240	90.8	63-129	1.36	20	L750028-08	WG772403
Chloromethane	mg/l	0.0265	0.0268	106.	42.4-135	1.12	20	L750028-08	WG772403
cis-1,2-Dichloroethene	mg/l	0.0235	0.0236	94.1	59.2-129	0.180	20	L750028-08	WG772403
cis-1,3-Dichloropropene	mg/l	0.0240	0.0244	95.8	66.4-125	1.73	20	L750028-08	WG772403
Di-isopropyl ether	mg/l	0.0268	0.0275	107.	56.9-136	2.65	20	L750028-08	WG772403
Dibromomethane	mg/l	0.0242	0.0246	97.0	68.2-124	1.35	20	L750028-08	WG772403
Dichlorodifluoromethane	mg/l	0.0222	0.0220	88.9	40.6-144	0.880	20.2	L750028-08	WG772403
Ethylbenzene	mg/l	0.0222	0.0229	88.8	61.4-133	3.12	20	L750028-08	WG772403
Hexachloro-1,3-butadiene	mg/l	0.0262	0.0255	105.	55.1-136	2.56	23.6	L750028-08	WG772403
Isopropylbenzene	mg/l	0.0223	0.0227	89.4	66.8-141	1.61	20	L750028-08	WG772403
Methyl tert-butyl ether	mg/l	0.0228	0.0233	91.1	57.7-134	2.22	20	L750028-08	WG772403
Methylene Chloride	mg/l	0.0219	0.0224	86.2	58.1-122	2.30	20	L750028-08	WG772403
n-Butylbenzene	mg/l	0.0253	0.0253	101.	62.7-140	0.0100	20.3	L750028-08	WG772403
n-Propylbenzene	mg/l	0.0226	0.0231	90.3	65.9-131	2.37	20	L750028-08	WG772403
Naphthalene	mg/l	0.0251	0.0244	91.8	58-135	2.78	25.5	L750028-08	WG772403
p-Isopropyltoluene	mg/l	0.0225	0.0229	89.8	63.2-139	1.82	20.4	L750028-08	WG772403
sec-Butylbenzene	mg/l	0.0225	0.0226	89.9	62.2-136	0.790	20.3	L750028-08	WG772403
Styrene	mg/l	0.0221	0.0227	88.5	66.8-133	2.44	20	L750028-08	WG772403
tert-Butylbenzene	mg/l	0.0224	0.0228	89.6	63.3-134	1.71	21	L750028-08	WG772403
Tetrachloroethene	mg/l	0.0227	0.0237	91.0	53-139	4.08	20	L750028-08	WG772403
Toluene	mg/l	0.0228	0.0234	91.3	61.4-130	2.36	20	L750028-08	WG772403
trans-1,2-Dichloroethene	mg/l	0.0235	0.0238	93.9	56.5-129	1.20	20	L750028-08	WG772403
trans-1,3-Dichloropropene	mg/l	0.0251	0.0245	100.	64.1-128	2.54	20	L750028-08	WG772403
Trichloroethene	mg/l	0.0219	0.0227	87.5	44.1-149	3.70	20	L750028-08	WG772403
Trichlorofluoromethane	mg/l	0.0263	0.0273	105.	49.6-145	3.47	21.2	L750028-08	WG772403
Vinyl chloride	mg/l	0.0269	0.0274	108.	47.8-137	1.72	20	L750028-08	WG772403
Xylenes, Total	mg/l	0.0656	0.0673	87.5	63.3-131	2.56	20	L750028-08	WG772403
4-Bromofluorobenzene				93.30	71-126				WG772403
Dibromofluoromethane				105.0	78.3-121				WG772403
Toluene-d8				104.0	88.5-111				WG772403
1,1,1,2-Tetrachloroethane	mg/l	0.0222	0.0208	88.6	64-128	6.38	20	L750320-09	WG772405
1,1,1-Trichloroethane	mg/l	0.0203	0.0188	81.0	58.7-134	7.61	20	L750320-09	WG772405
1,1,2,2-Tetrachloroethane	mg/l	0.0250	0.0237	100.	56-132	5.23	22.2	L750320-09	WG772405

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Quality Assurance Report
Level II

L750320

March 09, 2015

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,2-Trichloroethane	mg/l	0.0243	0.0230	97.0	66.3-125	5.53	20	L750320-09	WG772405
1,1,2-Trichlorotrifluoroethane	mg/l	0.0219	0.0207	87.5	54.8-154	5.66	22.5	L750320-09	WG772405
1,1-Dichloroethane	mg/l	0.0234	0.0218	93.5	58.5-132	6.91	20	L750320-09	WG772405
1,1-Dichloroethene	mg/l	0.0208	0.0196	83.2	51.1-140	6.19	20.2	L750320-09	WG772405
1,1-Dichloropropene	mg/l	0.0216	0.0203	86.3	57.3-136	6.25	20	L750320-09	WG772405
1,2,3-Trichlorobenzene	mg/l	0.0249	0.0221	99.7	59.1-138	12.0	23.7	L750320-09	WG772405
1,2,3-Trichloropropane	mg/l	0.0230	0.0211	91.8	61.4-128	8.46	22.4	L750320-09	WG772405
1,2,3-Trimethylbenzene	mg/l	0.0409	0.0367	90.0	61.3-122	11.0	20	L750320-09	WG772405
1,2,4-Trichlorobenzene	mg/l	0.0247	0.0223	99.0	63.6-143	10.2	21.9	L750320-09	WG772405
1,2,4-Trimethylbenzene	mg/l	0.0438	0.0393	79.6	57.4-137	10.8	20	L750320-09	WG772405
1,2-Dibromo-3-Chloropropane	mg/l	0.0274	0.0252	110.	57.3-136	8.16	27	L750320-09	WG772405
1,2-Dibromoethane	mg/l	0.0240	0.0227	96.1	67.1-125	5.64	20	L750320-09	WG772405
1,2-Dichlorobenzene	mg/l	0.0244	0.0228	97.4	68.2-123	6.61	20	L750320-09	WG772405
1,2-Dichloroethane	mg/l	0.0207	0.0197	82.8	60-126	4.81	20	L750320-09	WG772405
1,2-Dichloropropane	mg/l	0.0240	0.0227	96.1	64.2-123	5.67	20	L750320-09	WG772405
1,3,5-Trimethylbenzene	mg/l	0.0265	0.0245	84.0	63.6-132	8.17	20.5	L750320-09	WG772405
1,3-Dichlorobenzene	mg/l	0.0217	0.0203	86.8	63.1-131	6.67	20	L750320-09	WG772405
1,3-Dichloropropane	mg/l	0.0234	0.0224	93.7	67.9-121	4.48	20	L750320-09	WG772405
1,4-Dichlorobenzene	mg/l	0.0228	0.0213	91.2	68.6-123	6.92	20	L750320-09	WG772405
2,2-Dichloropropane	mg/l	0.0183	0.0172	73.1	50.5-144	6.22	21.9	L750320-09	WG772405
2-Butanone (MEK)	mg/l	0.0945	0.0878	75.6	22.4-138	7.38	27	L750320-09	WG772405
2-Chloroethyl vinyl ether	mg/l	0.0117	0.0124	9.35*	10-155	5.65	20	L750320-09	WG772405
2-Chlorotoluene	mg/l	0.0222	0.0208	88.9	63.6-128	6.77	20	L750320-09	WG772405
4-Chlorotoluene	mg/l	0.0215	0.0204	86.1	65.7-127	5.33	20	L750320-09	WG772405
4-Methyl-2-pentanone (MIBK)	mg/l	0.119	0.111	95.4	60.8-140	7.45	25.1	L750320-09	WG772405
Acetone	mg/l	0.0589	0.0536	43.2	10-130	9.42	27.9	L750320-09	WG772405
Acrolein	mg/l	0.117	0.109	93.2	10-200	6.78	27.7	L750320-09	WG772405
Acrylonitrile	mg/l	0.131	0.122	105.	49.4-133	7.27	25.3	L750320-09	WG772405
Benzene	mg/l	0.0348	0.0318	90.6	54.3-133	8.84	20	L750320-09	WG772405
Bromobenzene	mg/l	0.0217	0.0207	86.7	63.9-124	4.37	20	L750320-09	WG772405
Bromodichloromethane	mg/l	0.0221	0.0209	88.4	63.9-121	5.69	20	L750320-09	WG772405
Bromoform	mg/l	0.0224	0.0211	89.5	59.5-134	5.79	20.5	L750320-09	WG772405
Bromomethane	mg/l	0.0174	0.0155	69.8	41.7-155	12.1	21.9	L750320-09	WG772405
Carbon tetrachloride	mg/l	0.0193	0.0179	77.2	55.7-134	7.38	20	L750320-09	WG772405
Chlorobenzene	mg/l	0.0230	0.0217	92.2	67-125	6.11	20	L750320-09	WG772405
Chlorodibromomethane	mg/l	0.0228	0.0214	91.3	64.3-125	6.57	20.8	L750320-09	WG772405
Chloroethane	mg/l	0.0187	0.0163	74.9	51.5-136	13.8	40	L750320-09	WG772405
Chloroform	mg/l	0.0209	0.0200	83.8	63-129	4.82	20	L750320-09	WG772405
Chloromethane	mg/l	0.0211	0.0199	84.6	42.4-135	5.89	20	L750320-09	WG772405
cis-1,2-Dichloroethene	mg/l	0.0237	0.0226	94.7	59.2-129	4.73	20	L750320-09	WG772405
cis-1,3-Dichloropropene	mg/l	0.0230	0.0215	92.1	66.4-125	6.91	20	L750320-09	WG772405
Di-isopropyl ether	mg/l	0.0240	0.0226	96.0	56.9-136	5.99	20	L750320-09	WG772405
Dibromomethane	mg/l	0.0222	0.0208	88.6	68.2-124	6.40	20	L750320-09	WG772405
Dichlorodifluoromethane	mg/l	0.0178	0.0168	71.2	40.6-144	5.62	20.2	L750320-09	WG772405
Ethylbenzene	mg/l	0.0515	0.0459	80.8	61.4-133	11.3	20	L750320-09	WG772405
Hexachloro-1,3-butadiene	mg/l	0.0205	0.0183	82.0	55.1-136	11.3	23.6	L750320-09	WG772405
Isopropylbenzene	mg/l	0.0301	0.0274	83.0	66.8-141	9.55	20	L750320-09	WG772405
Methyl tert-butyl ether	mg/l	0.0245	0.0231	98.0	57.7-134	6.09	20	L750320-09	WG772405
Methylene Chloride	mg/l	0.0223	0.0211	89.3	58.1-122	5.53	20	L750320-09	WG772405
n-Butylbenzene	mg/l	0.0239	0.0218	93.2	62.7-140	9.06	20.3	L750320-09	WG772405
n-Propylbenzene	mg/l	0.0232	0.0217	85.1	65.9-131	6.54	20	L750320-09	WG772405
Naphthalene	mg/l	0.500	0.429	96.2	58-135	15.3	25.5	L750320-09	WG772405
p-Isopropyltoluene	mg/l	0.0227	0.0209	90.7	63.2-139	7.89	20.4	L750320-09	WG772405
sec-Butylbenzene	mg/l	0.0211	0.0196	84.2	62.2-136	6.92	20.3	L750320-09	WG772405
Styrene	mg/l	0.0233	0.0218	93.3	66.8-133	6.60	20	L750320-09	WG772405
tert-Butylbenzene	mg/l	0.0211	0.0196	84.4	63.3-134	7.24	21	L750320-09	WG772405
Tetrachloroethene	mg/l	0.0207	0.0194	82.6	53-139	6.32	20	L750320-09	WG772405
Toluene	mg/l	0.0252	0.0234	86.7	61.4-130	7.51	20	L750320-09	WG772405
trans-1,2-Dichloroethene	mg/l	0.0232	0.0216	92.6	56.5-129	6.80	20	L750320-09	WG772405

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Quality Assurance Report
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March 09, 2015

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trans-1,3-Dichloropropene	mg/l	0.0226	0.0210	90.4	64.1-128	7.34	20	L750320-09	WG772405
Trichloroethene	mg/l	0.0217	0.0201	86.6	44.1-149	7.65	20	L750320-09	WG772405
Trichlorofluoromethane	mg/l	0.0180	0.0159	72.0	49.6-145	12.6	21.2	L750320-09	WG772405
Vinyl chloride	mg/l	0.0199	0.0184	79.4	47.8-137	7.64	20	L750320-09	WG772405
Xylenes, Total	mg/l	0.103	0.0942	85.2	63.3-131	8.66	20	L750320-09	WG772405
4-Bromofluorobenzene				97.60	71-126				WG772405
Dibromofluoromethane				99.50	78.3-121				WG772405
Toluene-d8				99.50	88.5-111				WG772405
1-Methylnaphthalene	mg/l	0.581	0.577	760.*	65-145	0.580	20	L750320-09	WG772421
Acenaphthene	mg/l	0.179	0.183	217.*	53.5-156	2.14	20	L750320-09	WG772421
Naphthalene	mg/l	0.394	0.400	817.*	58.9-141	1.31	20	L750320-09	WG772421
1,1,1,2-Tetrachloroethane	mg/l	0.0284	0.0249	113.	64-128	13.1	20	L750131-07	WG773581
1,1,1-Trichloroethane	mg/l	0.0276	0.0247	110.	58.7-134	11.1	20	L750131-07	WG773581
1,1,2,2-Tetrachloroethane	mg/l	0.0328	0.0287	131.	56-132	13.6	22.2	L750131-07	WG773581
1,1,2-Trichloroethane	mg/l	0.0267	0.0253	107.	66.3-125	5.42	20	L750131-07	WG773581
1,1,2-Trichlorotrifluoroethane	mg/l	0.0270	0.0233	108.	54.8-154	14.7	22.5	L750131-07	WG773581
1,1-Dichloroethane	mg/l	0.0264	0.0240	106.	58.5-132	9.33	20	L750131-07	WG773581
1,1-Dichloroethene	mg/l	0.0278	0.0244	111.	51.1-140	12.9	20.2	L750131-07	WG773581
1,1-Dichloropropene	mg/l	0.0270	0.0237	108.	57.3-136	13.2	20	L750131-07	WG773581
1,2,3-Trichlorobenzene	mg/l	0.0296	0.0244	118.	59.1-138	19.5	23.7	L750131-07	WG773581
1,2,3-Trichloropropane	mg/l	0.0310	0.0273	124.	61.4-128	12.6	22.4	L750131-07	WG773581
1,2,3-Trimethylbenzene	mg/l	0.0258	0.0220	103.	61.3-122	16.2	20	L750131-07	WG773581
1,2,4-Trichlorobenzene	mg/l	0.0301	0.0237	120.	63.6-143	23.9*	21.9	L750131-07	WG773581
1,2,4-Trimethylbenzene	mg/l	0.0267	0.0230	107.	57.4-137	14.6	20	L750131-07	WG773581
1,2-Dibromo-3-Chloropropane	mg/l	0.0314	0.0291	126.	57.3-136	7.70	27	L750131-07	WG773581
1,2-Dibromoethane	mg/l	0.0290	0.0266	116.	67.1-125	8.84	20	L750131-07	WG773581
1,2-Dichlorobenzene	mg/l	0.0269	0.0232	107.	68.2-123	14.7	20	L750131-07	WG773581
1,2-Dichloroethane	mg/l	0.0392	0.0358	103.	60-126	9.10	20	L750131-07	WG773581
1,2-Dichloropropane	mg/l	0.0277	0.0248	107.	64.2-123	11.1	20	L750131-07	WG773581
1,3,5-Trimethylbenzene	mg/l	0.0266	0.0230	106.	63.6-132	14.7	20.5	L750131-07	WG773581
1,3-Dichlorobenzene	mg/l	0.0276	0.0243	110.	63.1-131	12.8	20	L750131-07	WG773581
1,3-Dichloropropane	mg/l	0.0263	0.0245	105.	67.9-121	6.74	20	L750131-07	WG773581
1,4-Dichlorobenzene	mg/l	0.0250	0.0223	100.	68.6-123	11.6	20	L750131-07	WG773581
2,2-Dichloropropane	mg/l	0.0272	0.0240	109.	50.5-144	12.5	21.9	L750131-07	WG773581
2-Butanone (MEK)	mg/l	0.167	0.153	131.	22.4-138	8.83	27	L750131-07	WG773581
2-Chloroethyl vinyl ether	mg/l	0.0664	0.0725	53.1	10-155	8.81	20	L750131-07	WG773581
2-Chlorotoluene	mg/l	0.0261	0.0227	104.	63.6-128	14.0	20	L750131-07	WG773581
4-Chlorotoluene	mg/l	0.0264	0.0238	106.	65.7-127	10.1	20	L750131-07	WG773581
4-Methyl-2-pentanone (MIBK)	mg/l	0.160	0.147	128.	60.8-140	8.21	25.1	L750131-07	WG773581
Acetone	mg/l	0.187	0.171	143.*	10-130	9.07	27.9	L750131-07	WG773581
Acrolein	mg/l	0.158	0.143	127.	10-200	9.88	27.7	L750131-07	WG773581
Acrylonitrile	mg/l	0.171	0.155	137.*	49.4-133	9.93	25.3	L750131-07	WG773581
Benzene	mg/l	0.0318	0.0281	100.	54.3-133	12.5	20	L750131-07	WG773581
Bromobenzene	mg/l	0.0267	0.0234	107.	63.9-124	12.9	20	L750131-07	WG773581
Bromodichloromethane	mg/l	0.0276	0.0251	110.	63.9-121	9.55	20	L750131-07	WG773581
Bromoform	mg/l	0.0293	0.0273	117.	59.5-134	6.92	20.5	L750131-07	WG773581
Bromomethane	mg/l	0.0268	0.0230	107.	41.7-155	15.2	21.9	L750131-07	WG773581
Carbon tetrachloride	mg/l	0.0269	0.0242	108.	55.7-134	10.7	20	L750131-07	WG773581
Chlorobenzene	mg/l	0.0260	0.0239	104.	67-125	8.61	20	L750131-07	WG773581
Chlorodibromomethane	mg/l	0.0268	0.0250	107.	64.3-125	7.30	20.8	L750131-07	WG773581
Chloroethane	mg/l	0.0275	0.0229	110.	51.5-136	18.2	40	L750131-07	WG773581
Chloroform	mg/l	0.0272	0.0243	109.	63-129	11.0	20	L750131-07	WG773581
Chloromethane	mg/l	0.0238	0.0200	95.1	42.4-135	17.1	20	L750131-07	WG773581
cis-1,2-Dichloroethene	mg/l	0.0267	0.0242	107.	59.2-129	9.70	20	L750131-07	WG773581
cis-1,3-Dichloropropene	mg/l	0.0271	0.0251	108.	66.4-125	7.70	20	L750131-07	WG773581

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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USA Environment, LP
Craig Lugowski
17301 W. Colfax Avenue, Suite 152

Golden, CO 80401

Quality Assurance Report
Level II

L750320

March 09, 2015

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Di-isopropyl ether	mg/l	0.0257	0.0231	103.	56.9-136	10.7	20	L750131-07	WG773581
Dibromomethane	mg/l	0.0280	0.0263	112.	68.2-124	6.32	20	L750131-07	WG773581
Dichlorodifluoromethane	mg/l	0.0243	0.0223	97.2	40.6-144	8.45	20.2	L750131-07	WG773581
Ethylbenzene	mg/l	0.0264	0.0236	106.	61.4-133	11.6	20	L750131-07	WG773581
Hexachloro-1,3-butadiene	mg/l	0.0266	0.0214	106.	55.1-136	21.7	23.6	L750131-07	WG773581
Isopropylbenzene	mg/l	0.0276	0.0240	110.	66.8-141	14.0	20	L750131-07	WG773581
Methyl tert-butyl ether	mg/l	0.0284	0.0266	107.	57.7-134	6.77	20	L750131-07	WG773581
Methylene Chloride	mg/l	0.0257	0.0232	103.	58.1-122	10.1	20	L750131-07	WG773581
n-Butylbenzene	mg/l	0.0275	0.0234	110.	62.7-140	15.9	20.3	L750131-07	WG773581
n-Propylbenzene	mg/l	0.0268	0.0235	107.	65.9-131	13.0	20	L750131-07	WG773581
Naphthalene	mg/l	0.0325	0.0265	130.	58-135	20.5	25.5	L750131-07	WG773581
p-Isopropyltoluene	mg/l	0.0269	0.0232	108.	63.2-139	15.0	20.4	L750131-07	WG773581
sec-Butylbenzene	mg/l	0.0283	0.0237	111.	62.2-136	17.4	20.3	L750131-07	WG773581
Styrene	mg/l	0.0277	0.0244	111.	66.8-133	12.7	20	L750131-07	WG773581
tert-Butylbenzene	mg/l	0.0273	0.0234	109.	63.3-134	15.2	21	L750131-07	WG773581
Tetrachloroethene	mg/l	0.0268	0.0253	107.	53-139	5.61	20	L750131-07	WG773581
Toluene	mg/l	0.0259	0.0235	104.	61.4-130	10.0	20	L750131-07	WG773581
trans-1,2-Dichloroethene	mg/l	0.0270	0.0238	108.	56.5-129	12.3	20	L750131-07	WG773581
trans-1,3-Dichloropropene	mg/l	0.0281	0.0264	112.	64.1-128	6.02	20	L750131-07	WG773581
Trichloroethene	mg/l	0.0264	0.0230	105.	44.1-149	13.7	20	L750131-07	WG773581
Trichlorofluoromethane	mg/l	0.0290	0.0258	116.	49.6-145	11.9	21.2	L750131-07	WG773581
Vinyl chloride	mg/l	0.0258	0.0231	103.	47.8-137	11.2	20	L750131-07	WG773581
Xylenes, Total	mg/l	0.0796	0.0710	106.	63.3-131	11.4	20	L750131-07	WG773581
4-Bromofluorobenzene				101.0	71-126				WG773581
Dibromofluoromethane				102.0	78.3-121				WG773581
Toluene-d8				102.0	88.5-111				WG773581
Naphthalene	mg/l	0.0252	0.0232	101.	58-135	7.94	25.5	L750222-02	WG773576
4-Bromofluorobenzene				102.0	71-126				WG773576
Dibromofluoromethane				94.90	78.3-121				WG773576
Toluene-d8				102.0	88.5-111				WG773576

Batch number /Run number / Sample number cross reference

WG772421: R3022147 R3022644 R3022680 R3022831 R3023113: L750320-01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16
WG772403: R3022498: L750320-01 02 03 04 05 06
WG772405: R3022772: L750320-07 08 09 10 13 15 17
WG773581: R3022840: L750320-11 12 14 16
WG773576: R3022883: L750320-09 15

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Golden, CO 80401

Quality Assurance Report
Level II

L750320

March 09, 2015

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Est. 1970

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

Report Summary

Monday July 06, 2015

Report Number: L772975
Samples Received: 06/24/15
Client Project: 5047-RC-0100

Description: Boulder 13th Street Plaza

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Darren Reeder , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-01

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-1

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 12:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	07/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	07/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	07/03/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	07/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	07/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	07/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	07/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	07/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	07/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	07/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	07/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	07/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	07/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	07/03/15	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 07/06/15 14:10 Printed: 07/06/15 14:11

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-01

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-1

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 12:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	07/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	07/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	07/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Naphthalene	U	0.0010	0.0050	mg/l		8260B	07/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	07/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	07/03/15	1
1,2,4-Trichlorobenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	07/03/15	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	07/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	07/03/15	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	101.			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	106.			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthene	U	0.000010	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthylene	U	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)anthracene	0.0000096	0.0000041	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(a)pyrene	U	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(b)fluoranthene	0.0000043	0.0000021	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(g,h,i)perylene	U	0.0000023	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Chrysene	U	0.000011	0.000050	mg/l		8270C-S	06/25/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	06/25/15	1
Fluoranthene	U	0.000016	0.000050	mg/l		8270C-S	06/25/15	1
Fluorene	U	0.0000085	0.000050	mg/l		8270C-S	06/25/15	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-01

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-1

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 12:45

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000015	0.000050	mg/l		8270C-S	06/25/15	1
Naphthalene	U	0.000020	0.00025	mg/l		8270C-S	06/25/15	1
Phenanthrene	0.000013	0.0000082	0.000050	mg/l	J	8270C-S	06/25/15	1
Pyrene	U	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
1-Methylnaphthalene	0.000022	0.0000082	0.00025	mg/l	J	8270C-S	06/25/15	1
2-Methylnaphthalene	0.000014	0.0000090	0.00025	mg/l	J	8270C-S	06/25/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/25/15	1
Surrogate Recovery								
Nitrobenzene-d5	101.			% Rec.		8270C-S	06/25/15	1
2-Fluorobiphenyl	81.6			% Rec.		8270C-S	06/25/15	1
p-Terphenyl-d14	76.5			% Rec.		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-02

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-2

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	07/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	07/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	07/03/15	1
Benzene	0.00059	0.00033	0.0010	mg/l	J	8260B	07/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	07/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	07/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	07/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	07/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	07/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	07/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	07/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	07/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	07/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	07/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	07/03/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-02

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-2

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	07/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	07/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	07/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Naphthalene	0.015	0.0010	0.0050	mg/l		8260B	07/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	07/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	07/03/15	1
1,2,4-Trichlorobenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	07/03/15	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
1,2,3-Trimethylbenzene	0.00043	0.00032	0.0010	mg/l	J	8260B	07/03/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	07/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	07/03/15	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	100.			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	106.			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.000021	0.000014	0.000050	mg/l	J	8270C-S	06/25/15	1
Acenaphthene	0.00073	0.000010	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthylene	0.00016	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)anthracene	0.000031	0.0000041	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(a)pyrene	0.000033	0.000012	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(b)fluoranthene	0.000025	0.0000021	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(g,h,i)perylene	0.000023	0.0000023	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(k)fluoranthene	0.000014	0.000014	0.000050	mg/l	J	8270C-S	06/25/15	1
Chrysene	0.000018	0.000011	0.000050	mg/l	J	8270C-S	06/25/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	06/25/15	1
Fluoranthene	0.000028	0.000016	0.000050	mg/l	J	8270C-S	06/25/15	1
Fluorene	0.000016	0.0000085	0.000050	mg/l	J	8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-02

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-2

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000018	0.000015	0.000050	mg/l	J	8270C-S	06/25/15	1
Naphthalene	0.0069	0.000020	0.00025	mg/l		8270C-S	06/25/15	1
Phenanthrene	0.000018	0.0000082	0.000050	mg/l	J	8270C-S	06/25/15	1
Pyrene	0.00028	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
1-Methylnaphthalene	0.0020	0.0000082	0.00025	mg/l		8270C-S	06/25/15	1
2-Methylnaphthalene	0.000082	0.0000090	0.00025	mg/l	J	8270C-S	06/25/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/25/15	1
Surrogate Recovery								
Nitrobenzene-d5	106.			% Rec.		8270C-S	06/25/15	1
2-Fluorobiphenyl	86.1			% Rec.		8270C-S	06/25/15	1
p-Terphenyl-d14	74.3			% Rec.		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-03

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-3R

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 12:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.50	2.5	mg/l		8260B	07/03/15	50
Acrolein	U	0.44	2.5	mg/l		8260B	07/03/15	50
Acrylonitrile	U	0.094	0.50	mg/l		8260B	07/03/15	50
Benzene	0.14	0.016	0.050	mg/l		8260B	07/03/15	50
Bromobenzene	U	0.018	0.050	mg/l		8260B	07/03/15	50
Bromodichloromethane	U	0.019	0.050	mg/l		8260B	07/03/15	50
Bromoform	U	0.023	0.050	mg/l		8260B	07/03/15	50
Bromomethane	U	0.043	0.25	mg/l		8260B	07/03/15	50
n-Butylbenzene	U	0.018	0.050	mg/l		8260B	07/03/15	50
sec-Butylbenzene	U	0.018	0.050	mg/l		8260B	07/03/15	50
tert-Butylbenzene	U	0.020	0.050	mg/l		8260B	07/03/15	50
Carbon tetrachloride	U	0.019	0.050	mg/l		8260B	07/03/15	50
Chlorobenzene	U	0.017	0.050	mg/l		8260B	07/03/15	50
Chlorodibromomethane	U	0.016	0.050	mg/l		8260B	07/03/15	50
Chloroethane	U	0.023	0.25	mg/l		8260B	07/03/15	50
2-Chloroethyl vinyl ether	U	0.15	2.5	mg/l		8260B	07/03/15	50
Chloroform	U	0.016	0.25	mg/l		8260B	07/03/15	50
Chloromethane	U	0.014	0.13	mg/l		8260B	07/03/15	50
2-Chlorotoluene	U	0.019	0.050	mg/l		8260B	07/03/15	50
4-Chlorotoluene	U	0.018	0.050	mg/l		8260B	07/03/15	50
1,2-Dibromo-3-Chloropropane	U	0.066	0.25	mg/l		8260B	07/03/15	50
1,2-Dibromoethane	U	0.019	0.050	mg/l		8260B	07/03/15	50
Dibromomethane	U	0.017	0.050	mg/l		8260B	07/03/15	50
1,2-Dichlorobenzene	U	0.017	0.050	mg/l		8260B	07/03/15	50
1,3-Dichlorobenzene	U	0.011	0.050	mg/l		8260B	07/03/15	50
1,4-Dichlorobenzene	U	0.014	0.050	mg/l		8260B	07/03/15	50
Dichlorodifluoromethane	U	0.028	0.25	mg/l		8260B	07/03/15	50
1,1-Dichloroethane	U	0.013	0.050	mg/l		8260B	07/03/15	50
1,2-Dichloroethane	U	0.018	0.050	mg/l		8260B	07/03/15	50
1,1-Dichloroethene	U	0.020	0.050	mg/l		8260B	07/03/15	50
cis-1,2-Dichloroethene	U	0.013	0.050	mg/l		8260B	07/03/15	50
trans-1,2-Dichloroethene	U	0.020	0.050	mg/l		8260B	07/03/15	50
1,2-Dichloropropane	U	0.015	0.050	mg/l		8260B	07/03/15	50
1,1-Dichloropropene	U	0.018	0.050	mg/l		8260B	07/03/15	50
1,3-Dichloropropane	U	0.018	0.050	mg/l		8260B	07/03/15	50
cis-1,3-Dichloropropene	U	0.021	0.050	mg/l		8260B	07/03/15	50
trans-1,3-Dichloropropene	U	0.021	0.050	mg/l		8260B	07/03/15	50
2,2-Dichloropropane	U	0.016	0.050	mg/l		8260B	07/03/15	50
Di-isopropyl ether	U	0.016	0.050	mg/l		8260B	07/03/15	50
Ethylbenzene	0.20	0.019	0.050	mg/l		8260B	07/03/15	50
Hexachloro-1,3-butadiene	U	0.013	0.050	mg/l		8260B	07/03/15	50
Isopropylbenzene	0.030	0.016	0.050	mg/l	J	8260B	07/03/15	50

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-03

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-3R

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 12:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.018	0.050	mg/l		8260B	07/03/15	50
2-Butanone (MEK)	U	0.20	0.50	mg/l		8260B	07/03/15	50
Methylene Chloride	U	0.050	0.25	mg/l		8260B	07/03/15	50
4-Methyl-2-pentanone (MIBK)	U	0.11	0.50	mg/l		8260B	07/03/15	50
Methyl tert-butyl ether	U	0.018	0.050	mg/l		8260B	07/03/15	50
Naphthalene	2.3	0.050	0.25	mg/l		8260B	07/03/15	50
n-Propylbenzene	U	0.017	0.050	mg/l		8260B	07/03/15	50
Styrene	U	0.015	0.050	mg/l		8260B	07/03/15	50
1,1,1,2-Tetrachloroethane	U	0.019	0.050	mg/l		8260B	07/03/15	50
1,1,2,2-Tetrachloroethane	U	0.0065	0.050	mg/l		8260B	07/03/15	50
1,1,2-Trichlorotrifluoroethane	U	0.015	0.050	mg/l		8260B	07/03/15	50
Tetrachloroethene	U	0.019	0.050	mg/l		8260B	07/03/15	50
Toluene	U	0.039	0.25	mg/l		8260B	07/03/15	50
1,2,3-Trichlorobenzene	U	0.012	0.050	mg/l		8260B	07/03/15	50
1,2,4-Trichlorobenzene	U	0.018	0.050	mg/l		8260B	07/03/15	50
1,1,1-Trichloroethane	U	0.016	0.050	mg/l		8260B	07/03/15	50
1,1,2-Trichloroethane	U	0.019	0.050	mg/l		8260B	07/03/15	50
Trichloroethene	U	0.020	0.050	mg/l		8260B	07/03/15	50
Trichlorofluoromethane	U	0.060	0.25	mg/l		8260B	07/03/15	50
1,2,3-Trichloropropane	U	0.040	0.13	mg/l		8260B	07/03/15	50
1,2,4-Trimethylbenzene	0.11	0.019	0.050	mg/l		8260B	07/03/15	50
1,2,3-Trimethylbenzene	0.050	0.016	0.050	mg/l		8260B	07/03/15	50
1,3,5-Trimethylbenzene	0.041	0.019	0.050	mg/l	J	8260B	07/03/15	50
Vinyl chloride	U	0.013	0.050	mg/l		8260B	07/03/15	50
Xylenes, Total	0.14	0.053	0.15	mg/l	J	8260B	07/03/15	50
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	102.			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	102.			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.017	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthene	0.31	0.0010	0.0050	mg/l		8270C-S	06/26/15	100
Acenaphthylene	0.087	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)anthracene	0.0014	0.0000041	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)pyrene	0.00081	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(b)fluoranthene	0.00061	0.0000021	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(g,h,i)perylene	0.00027	0.0000023	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(k)fluoranthene	0.00020	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Chrysene	0.0012	0.000011	0.000050	mg/l		8270C-S	06/25/15	1
Dibenz(a,h)anthracene	0.000039	0.0000040	0.000050	mg/l	J	8270C-S	06/25/15	1
Fluoranthene	0.0055	0.000016	0.000050	mg/l		8270C-S	06/25/15	1
Fluorene	0.077	0.0000085	0.000050	mg/l		8270C-S	06/25/15	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-03

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-3R

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 12:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.00024	0.000015	0.000050	mg/l		8270C-S	06/25/15	1
Naphthalene	1.9	0.0020	0.025	mg/l		8270C-S	06/26/15	100
Phenanthrene	0.087	0.0000082	0.000050	mg/l		8270C-S	06/25/15	1
Pyrene	0.0082	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
1-Methylnaphthalene	1.0	0.00082	0.025	mg/l		8270C-S	06/26/15	100
2-Methylnaphthalene	0.50	0.00090	0.025	mg/l		8270C-S	06/26/15	100
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/25/15	1
Surrogate Recovery								
Nitrobenzene-d5	74.2			% Rec.		8270C-S	06/25/15	1
2-Fluorobiphenyl	78.9			% Rec.		8270C-S	06/25/15	1
p-Terphenyl-d14	75.5			% Rec.		8270C-S	06/25/15	1

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Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-04

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-4

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 13:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	07/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	07/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	07/03/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	07/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	07/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	07/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	07/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	07/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	07/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	07/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	07/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	07/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	07/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	07/03/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-04

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-4

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 13:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	07/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	07/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	07/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Naphthalene	0.0022	0.0010	0.0050	mg/l	J	8260B	07/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	07/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	07/03/15	1
1,2,4-Trichlorobenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	07/03/15	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	07/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	07/03/15	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	103.			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	106.			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.000020	0.000014	0.000050	mg/l	J	8270C-S	06/25/15	1
Acenaphthene	0.00011	0.000010	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthylene	0.000043	0.000012	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(a)anthracene	0.000015	0.0000041	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(a)pyrene	0.000019	0.000012	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(b)fluoranthene	0.000012	0.0000021	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(g,h,i)perylene	0.000042	0.0000023	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Chrysene	U	0.000011	0.000050	mg/l		8270C-S	06/25/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	06/25/15	1
Fluoranthene	0.000018	0.000016	0.000050	mg/l	J	8270C-S	06/25/15	1
Fluorene	0.000052	0.0000085	0.000050	mg/l		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-04

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-4

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 13:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000030	0.000015	0.000050	mg/l	J	8270C-S	06/25/15	1
Naphthalene	0.00062	0.000020	0.00025	mg/l		8270C-S	06/25/15	1
Phenanthrene	0.000047	0.0000082	0.000050	mg/l	J	8270C-S	06/25/15	1
Pyrene	0.000026	0.000012	0.000050	mg/l	J	8270C-S	06/25/15	1
1-Methylnaphthalene	0.00031	0.0000082	0.00025	mg/l		8270C-S	06/25/15	1
2-Methylnaphthalene	0.00016	0.0000090	0.00025	mg/l	J	8270C-S	06/25/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/25/15	1
Surrogate Recovery								
Nitrobenzene-d5	100.			% Rec.		8270C-S	06/25/15	1
2-Fluorobiphenyl	81.6			% Rec.		8270C-S	06/25/15	1
p-Terphenyl-d14	65.2			% Rec.		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-05

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-5

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 14:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	07/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	07/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	07/03/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	07/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	07/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	07/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	07/03/15	1
Chloroform	0.00090	0.00032	0.0050	mg/l	J	8260B	07/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	07/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	07/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	07/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	07/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	07/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	07/03/15	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-05

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-5

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 14:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	07/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	07/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	07/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Naphthalene	0.0014	0.0010	0.0050	mg/l	J	8260B	07/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	07/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	07/03/15	1
1,2,4-Trichlorobenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	07/03/15	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	07/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	07/03/15	1
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	102.			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	102.			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0020	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthene	0.0054	0.000010	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthylene	0.0043	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)anthracene	0.0011	0.0000041	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)pyrene	0.0017	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(b)fluoranthene	0.0011	0.0000021	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(g,h,i)perylene	0.00086	0.0000023	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(k)fluoranthene	0.00033	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Chrysene	0.00083	0.000011	0.000050	mg/l		8270C-S	06/25/15	1
Dibenz(a,h)anthracene	0.000072	0.0000040	0.000050	mg/l		8270C-S	06/25/15	1
Fluoranthene	0.0020	0.000016	0.000050	mg/l		8270C-S	06/25/15	1
Fluorene	0.0018	0.0000085	0.000050	mg/l		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-05

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-5

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 14:15

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.00071	0.000015	0.000050	mg/l		8270C-S	06/25/15	1
Naphthalene	0.00032	0.000020	0.00025	mg/l		8270C-S	06/25/15	1
Phenanthrene	0.0049	0.0000082	0.000050	mg/l		8270C-S	06/25/15	1
Pyrene	0.0054	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
1-Methylnaphthalene	0.0040	0.0000082	0.00025	mg/l		8270C-S	06/25/15	1
2-Methylnaphthalene	0.00022	0.0000090	0.00025	mg/l	J	8270C-S	06/25/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/25/15	1
Surrogate Recovery								
Nitrobenzene-d5	96.7			% Rec.		8270C-S	06/25/15	1
2-Fluorobiphenyl	80.2			% Rec.		8270C-S	06/25/15	1
p-Terphenyl-d14	72.0			% Rec.		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-06

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-6

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 15:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/l		8260B	07/02/15	5
Acrolein	U	0.044	0.25	mg/l		8260B	07/02/15	5
Acrylonitrile	U	0.0094	0.050	mg/l		8260B	07/02/15	5
Benzene	U	0.0016	0.0050	mg/l		8260B	07/02/15	5
Bromobenzene	U	0.0018	0.0050	mg/l		8260B	07/02/15	5
Bromodichloromethane	U	0.0019	0.0050	mg/l		8260B	07/02/15	5
Bromoform	U	0.0023	0.0050	mg/l		8260B	07/02/15	5
Bromomethane	U	0.0043	0.025	mg/l		8260B	07/02/15	5
n-Butylbenzene	U	0.0018	0.0050	mg/l		8260B	07/02/15	5
sec-Butylbenzene	U	0.0018	0.0050	mg/l		8260B	07/02/15	5
tert-Butylbenzene	U	0.0020	0.0050	mg/l		8260B	07/02/15	5
Carbon tetrachloride	U	0.0019	0.0050	mg/l		8260B	07/02/15	5
Chlorobenzene	U	0.0017	0.0050	mg/l		8260B	07/02/15	5
Chlorodibromomethane	U	0.0016	0.0050	mg/l		8260B	07/02/15	5
Chloroethane	U	0.0023	0.025	mg/l		8260B	07/02/15	5
2-Chloroethyl vinyl ether	U	0.015	0.25	mg/l		8260B	07/02/15	5
Chloroform	U	0.0016	0.025	mg/l		8260B	07/02/15	5
Chloromethane	U	0.0014	0.013	mg/l		8260B	07/02/15	5
2-Chlorotoluene	U	0.0019	0.0050	mg/l		8260B	07/02/15	5
4-Chlorotoluene	U	0.0018	0.0050	mg/l		8260B	07/02/15	5
1,2-Dibromo-3-Chloropropane	U	0.0066	0.025	mg/l		8260B	07/02/15	5
1,2-Dibromoethane	U	0.0019	0.0050	mg/l		8260B	07/02/15	5
Dibromomethane	U	0.0017	0.0050	mg/l		8260B	07/02/15	5
1,2-Dichlorobenzene	U	0.0017	0.0050	mg/l		8260B	07/02/15	5
1,3-Dichlorobenzene	U	0.0011	0.0050	mg/l		8260B	07/02/15	5
1,4-Dichlorobenzene	U	0.0014	0.0050	mg/l		8260B	07/02/15	5
Dichlorodifluoromethane	U	0.0028	0.025	mg/l		8260B	07/02/15	5
1,1-Dichloroethane	U	0.0013	0.0050	mg/l		8260B	07/02/15	5
1,2-Dichloroethane	U	0.0018	0.0050	mg/l		8260B	07/02/15	5
1,1-Dichloroethene	U	0.0020	0.0050	mg/l		8260B	07/02/15	5
cis-1,2-Dichloroethene	U	0.0013	0.0050	mg/l		8260B	07/02/15	5
trans-1,2-Dichloroethene	U	0.0020	0.0050	mg/l		8260B	07/02/15	5
1,2-Dichloropropane	U	0.0015	0.0050	mg/l		8260B	07/02/15	5
1,1-Dichloropropene	U	0.0018	0.0050	mg/l		8260B	07/02/15	5
1,3-Dichloropropane	U	0.0018	0.0050	mg/l		8260B	07/02/15	5
cis-1,3-Dichloropropene	U	0.0021	0.0050	mg/l		8260B	07/02/15	5
trans-1,3-Dichloropropene	U	0.0021	0.0050	mg/l		8260B	07/02/15	5
2,2-Dichloropropane	U	0.0016	0.0050	mg/l		8260B	07/02/15	5
Di-isopropyl ether	U	0.0016	0.0050	mg/l		8260B	07/02/15	5
Ethylbenzene	0.027	0.0019	0.0050	mg/l		8260B	07/02/15	5
Hexachloro-1,3-butadiene	U	0.0013	0.0050	mg/l		8260B	07/02/15	5
Isopropylbenzene	0.0077	0.0016	0.0050	mg/l		8260B	07/02/15	5

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-06

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-6

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 15:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.0018	0.0050	mg/l		8260B	07/02/15	5
2-Butanone (MEK)	U	0.020	0.050	mg/l		8260B	07/02/15	5
Methylene Chloride	U	0.0050	0.025	mg/l		8260B	07/02/15	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.050	mg/l		8260B	07/02/15	5
Methyl tert-butyl ether	U	0.0018	0.0050	mg/l		8260B	07/02/15	5
Naphthalene	0.78	0.0050	0.025	mg/l		8260B	07/02/15	5
n-Propylbenzene	0.0031	0.0017	0.0050	mg/l	J	8260B	07/02/15	5
Styrene	U	0.0015	0.0050	mg/l		8260B	07/02/15	5
1,1,1,2-Tetrachloroethane	U	0.0019	0.0050	mg/l		8260B	07/02/15	5
1,1,2,2-Tetrachloroethane	U	0.00065	0.0050	mg/l		8260B	07/02/15	5
1,1,2-Trichlorotrifluoroethane	U	0.0015	0.0050	mg/l		8260B	07/02/15	5
Tetrachloroethene	U	0.0019	0.0050	mg/l		8260B	07/02/15	5
Toluene	U	0.0039	0.025	mg/l		8260B	07/02/15	5
1,2,3-Trichlorobenzene	U	0.0012	0.0050	mg/l		8260B	07/02/15	5
1,2,4-Trichlorobenzene	U	0.0018	0.0050	mg/l		8260B	07/02/15	5
1,1,1-Trichloroethane	U	0.0016	0.0050	mg/l		8260B	07/02/15	5
1,1,2-Trichloroethane	U	0.0019	0.0050	mg/l		8260B	07/02/15	5
Trichloroethene	U	0.0020	0.0050	mg/l		8260B	07/02/15	5
Trichlorofluoromethane	U	0.0060	0.025	mg/l		8260B	07/02/15	5
1,2,3-Trichloropropane	U	0.0040	0.013	mg/l		8260B	07/02/15	5
1,2,4-Trimethylbenzene	0.040	0.0019	0.0050	mg/l		8260B	07/02/15	5
1,2,3-Trimethylbenzene	0.012	0.0016	0.0050	mg/l		8260B	07/02/15	5
1,3,5-Trimethylbenzene	0.012	0.0019	0.0050	mg/l		8260B	07/02/15	5
Vinyl chloride	U	0.0013	0.0050	mg/l		8260B	07/02/15	5
Xylenes, Total	0.029	0.0053	0.015	mg/l		8260B	07/02/15	5
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	07/02/15	1
Dibromofluoromethane	103.			% Rec.		8260B	07/02/15	1
4-Bromofluorobenzene	104.			% Rec.		8260B	07/02/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.013	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthene	0.069	0.000010	0.000050	mg/l	V	8270C-S	06/25/15	1
Acenaphthylene	0.071	0.000012	0.000050	mg/l	V	8270C-S	06/25/15	1
Benzo(a)anthracene	0.00097	0.0000041	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)pyrene	0.00085	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(b)fluoranthene	0.00064	0.0000021	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(g,h,i)perylene	0.00054	0.0000023	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(k)fluoranthene	0.00018	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Chrysene	0.00099	0.000011	0.000050	mg/l		8270C-S	06/25/15	1
Dibenz(a,h)anthracene	0.000033	0.0000040	0.000050	mg/l	J	8270C-S	06/25/15	1
Fluoranthene	0.0071	0.000016	0.000050	mg/l		8270C-S	06/25/15	1
Fluorene	0.038	0.0000085	0.000050	mg/l		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-06

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-6

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 15:50

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.00040	0.000015	0.000050	mg/l		8270C-S	06/25/15	1
Naphthalene	0.32	0.00040	0.0050	mg/l		8270C-S	06/25/15	20
Phenanthrene	0.072	0.0000082	0.000050	mg/l	V	8270C-S	06/25/15	1
Pyrene	0.011	0.000012	0.000050	mg/l	V	8270C-S	06/25/15	1
1-Methylnaphthalene	0.22	0.00016	0.0050	mg/l		8270C-S	06/25/15	20
2-Methylnaphthalene	0.054	0.0000090	0.00025	mg/l	V	8270C-S	06/25/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/25/15	1
Surrogate Recovery								
Nitrobenzene-d5	87.7			% Rec.		8270C-S	06/25/15	1
2-Fluorobiphenyl	76.5			% Rec.		8270C-S	06/25/15	1
p-Terphenyl-d14	69.7			% Rec.		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-07

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-7

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 10:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/l		8260B	07/03/15	5
Acrolein	U	0.044	0.25	mg/l		8260B	07/03/15	5
Acrylonitrile	U	0.0094	0.050	mg/l		8260B	07/03/15	5
Benzene	0.043	0.0016	0.0050	mg/l		8260B	07/03/15	5
Bromobenzene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
Bromodichloromethane	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
Bromoform	U	0.0023	0.0050	mg/l		8260B	07/03/15	5
Bromomethane	U	0.0043	0.025	mg/l		8260B	07/03/15	5
n-Butylbenzene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
sec-Butylbenzene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
tert-Butylbenzene	U	0.0020	0.0050	mg/l		8260B	07/03/15	5
Carbon tetrachloride	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
Chlorobenzene	U	0.0017	0.0050	mg/l		8260B	07/03/15	5
Chlorodibromomethane	U	0.0016	0.0050	mg/l		8260B	07/03/15	5
Chloroethane	U	0.0023	0.025	mg/l		8260B	07/03/15	5
2-Chloroethyl vinyl ether	U	0.015	0.25	mg/l		8260B	07/03/15	5
Chloroform	U	0.0016	0.025	mg/l		8260B	07/03/15	5
Chloromethane	U	0.0014	0.013	mg/l		8260B	07/03/15	5
2-Chlorotoluene	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
4-Chlorotoluene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
1,2-Dibromo-3-Chloropropane	U	0.0066	0.025	mg/l		8260B	07/03/15	5
1,2-Dibromoethane	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
Dibromomethane	U	0.0017	0.0050	mg/l		8260B	07/03/15	5
1,2-Dichlorobenzene	U	0.0017	0.0050	mg/l		8260B	07/03/15	5
1,3-Dichlorobenzene	U	0.0011	0.0050	mg/l		8260B	07/03/15	5
1,4-Dichlorobenzene	U	0.0014	0.0050	mg/l		8260B	07/03/15	5
Dichlorodifluoromethane	U	0.0028	0.025	mg/l		8260B	07/03/15	5
1,1-Dichloroethane	U	0.0013	0.0050	mg/l		8260B	07/03/15	5
1,2-Dichloroethane	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
1,1-Dichloroethene	U	0.0020	0.0050	mg/l		8260B	07/03/15	5
cis-1,2-Dichloroethene	U	0.0013	0.0050	mg/l		8260B	07/03/15	5
trans-1,2-Dichloroethene	U	0.0020	0.0050	mg/l		8260B	07/03/15	5
1,2-Dichloropropane	U	0.0015	0.0050	mg/l		8260B	07/03/15	5
1,1-Dichloropropene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
1,3-Dichloropropane	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
cis-1,3-Dichloropropene	U	0.0021	0.0050	mg/l		8260B	07/03/15	5
trans-1,3-Dichloropropene	U	0.0021	0.0050	mg/l		8260B	07/03/15	5
2,2-Dichloropropane	U	0.0016	0.0050	mg/l		8260B	07/03/15	5
Di-isopropyl ether	U	0.0016	0.0050	mg/l		8260B	07/03/15	5
Ethylbenzene	0.054	0.0019	0.0050	mg/l		8260B	07/03/15	5
Hexachloro-1,3-butadiene	U	0.0013	0.0050	mg/l		8260B	07/03/15	5
Isopropylbenzene	0.018	0.0016	0.0050	mg/l		8260B	07/03/15	5

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Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-07

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-7

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 10:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
2-Butanone (MEK)	U	0.020	0.050	mg/l		8260B	07/03/15	5
Methylene Chloride	U	0.0050	0.025	mg/l		8260B	07/03/15	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.050	mg/l		8260B	07/03/15	5
Methyl tert-butyl ether	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
Naphthalene	0.46	0.0050	0.025	mg/l		8260B	07/03/15	5
n-Propylbenzene	0.0030	0.0017	0.0050	mg/l	J	8260B	07/03/15	5
Styrene	U	0.0015	0.0050	mg/l		8260B	07/03/15	5
1,1,1,2-Tetrachloroethane	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
1,1,2,2-Tetrachloroethane	U	0.00065	0.0050	mg/l		8260B	07/03/15	5
1,1,2-Trichlorotrifluoroethane	U	0.0015	0.0050	mg/l		8260B	07/03/15	5
Tetrachloroethene	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
Toluene	U	0.0039	0.025	mg/l		8260B	07/03/15	5
1,2,3-Trichlorobenzene	U	0.0012	0.0050	mg/l		8260B	07/03/15	5
1,2,4-Trichlorobenzene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
1,1,1-Trichloroethane	U	0.0016	0.0050	mg/l		8260B	07/03/15	5
1,1,2-Trichloroethane	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
Trichloroethene	U	0.0020	0.0050	mg/l		8260B	07/03/15	5
Trichlorofluoromethane	U	0.0060	0.025	mg/l		8260B	07/03/15	5
1,2,3-Trichloropropane	U	0.0040	0.013	mg/l		8260B	07/03/15	5
1,2,4-Trimethylbenzene	0.036	0.0019	0.0050	mg/l		8260B	07/03/15	5
1,2,3-Trimethylbenzene	0.029	0.0016	0.0050	mg/l		8260B	07/03/15	5
1,3,5-Trimethylbenzene	0.0041	0.0019	0.0050	mg/l	J	8260B	07/03/15	5
Vinyl chloride	U	0.0013	0.0050	mg/l		8260B	07/03/15	5
Xylenes, Total	0.069	0.0053	0.015	mg/l		8260B	07/03/15	5
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	103.			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	108.			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0094	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthene	0.12	0.00020	0.0010	mg/l		8270C-S	06/25/15	20
Acenaphthylene	0.047	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)anthracene	0.00012	0.0000041	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)pyrene	0.000055	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(b)fluoranthene	0.000054	0.0000021	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(g,h,i)perylene	0.000046	0.0000023	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(k)fluoranthene	0.000021	0.000014	0.000050	mg/l	J	8270C-S	06/25/15	1
Chrysene	0.000099	0.000011	0.000050	mg/l		8270C-S	06/25/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	06/25/15	1
Fluoranthene	0.0028	0.000016	0.000050	mg/l		8270C-S	06/25/15	1
Fluorene	0.024	0.0000085	0.000050	mg/l		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-07

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-7

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 10:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000032	0.000015	0.000050	mg/l	J	8270C-S	06/25/15	1
Naphthalene	0.29	0.00040	0.0050	mg/l		8270C-S	06/25/15	20
Phenanthrene	0.041	0.0000082	0.000050	mg/l		8270C-S	06/25/15	1
Pyrene	0.0038	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
1-Methylnaphthalene	0.41	0.00016	0.0050	mg/l		8270C-S	06/25/15	20
2-Methylnaphthalene	0.010	0.0000090	0.00025	mg/l		8270C-S	06/25/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/25/15	1
Surrogate Recovery								
Nitrobenzene-d5	95.9			% Rec.		8270C-S	06/25/15	1
2-Fluorobiphenyl	80.4			% Rec.		8270C-S	06/25/15	1
p-Terphenyl-d14	74.9			% Rec.		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-08

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-8R

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 09:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	07/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	07/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	07/03/15	1
Benzene	0.0065	0.00033	0.0010	mg/l		8260B	07/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	07/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	07/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	07/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l	J6J3	8260B	07/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	07/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	07/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	07/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	07/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	07/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	07/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Ethylbenzene	0.0017	0.00038	0.0010	mg/l		8260B	07/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Isopropylbenzene	0.00070	0.00033	0.0010	mg/l	J	8260B	07/03/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-08

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-8R

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 09:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	07/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	07/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	07/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Naphthalene	0.030	0.0010	0.0050	mg/l	J6	8260B	07/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	07/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	07/03/15	1
1,2,4-Trichlorobenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	07/03/15	1
1,2,4-Trimethylbenzene	0.0025	0.00037	0.0010	mg/l		8260B	07/03/15	1
1,2,3-Trimethylbenzene	0.0016	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,3,5-Trimethylbenzene	0.00066	0.00039	0.0010	mg/l	J	8260B	07/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Xylenes, Total	0.0057	0.0011	0.0030	mg/l		8260B	07/03/15	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	90.0			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	94.7			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.000055	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthene	0.0026	0.000010	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthylene	0.00021	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)anthracene	0.000024	0.0000041	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(a)pyrene	U	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(b)fluoranthene	0.000012	0.0000021	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(g,h,i)perylene	0.0000055	0.0000023	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Chrysene	0.000017	0.000011	0.000050	mg/l	J	8270C-S	06/25/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	06/25/15	1
Fluoranthene	0.000069	0.000016	0.000050	mg/l		8270C-S	06/25/15	1
Fluorene	0.00011	0.0000085	0.000050	mg/l		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-08

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-8R

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 09:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000015	0.000050	mg/l		8270C-S	06/25/15	1
Naphthalene	0.00049	0.000020	0.00025	mg/l		8270C-S	06/25/15	1
Phenanthrene	0.000038	0.0000082	0.000050	mg/l	J	8270C-S	06/25/15	1
Pyrene	0.00011	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
1-Methylnaphthalene	0.0029	0.0000082	0.00025	mg/l		8270C-S	06/25/15	1
2-Methylnaphthalene	0.000091	0.0000090	0.00025	mg/l	J	8270C-S	06/25/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/25/15	1
Surrogate Recovery								
Nitrobenzene-d5	103.			% Rec.		8270C-S	06/25/15	1
2-Fluorobiphenyl	82.6			% Rec.		8270C-S	06/25/15	1
p-Terphenyl-d14	72.8			% Rec.		8270C-S	06/25/15	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-09

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-10

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 11:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.20	1.0	mg/l		8260B	07/03/15	20
Acrolein	U	0.18	1.0	mg/l		8260B	07/03/15	20
Acrylonitrile	U	0.037	0.20	mg/l		8260B	07/03/15	20
Benzene	0.011	0.0066	0.020	mg/l	J	8260B	07/03/15	20
Bromobenzene	U	0.0070	0.020	mg/l		8260B	07/03/15	20
Bromodichloromethane	U	0.0076	0.020	mg/l		8260B	07/03/15	20
Bromoform	U	0.0094	0.020	mg/l		8260B	07/03/15	20
Bromomethane	U	0.017	0.10	mg/l		8260B	07/03/15	20
n-Butylbenzene	U	0.0072	0.020	mg/l		8260B	07/03/15	20
sec-Butylbenzene	U	0.0073	0.020	mg/l		8260B	07/03/15	20
tert-Butylbenzene	U	0.0080	0.020	mg/l		8260B	07/03/15	20
Carbon tetrachloride	U	0.0076	0.020	mg/l		8260B	07/03/15	20
Chlorobenzene	U	0.0070	0.020	mg/l		8260B	07/03/15	20
Chlorodibromomethane	U	0.0065	0.020	mg/l		8260B	07/03/15	20
Chloroethane	U	0.0091	0.10	mg/l		8260B	07/03/15	20
2-Chloroethyl vinyl ether	U	0.060	1.0	mg/l		8260B	07/03/15	20
Chloroform	U	0.0065	0.10	mg/l		8260B	07/03/15	20
Chloromethane	U	0.0055	0.050	mg/l		8260B	07/03/15	20
2-Chlorotoluene	U	0.0075	0.020	mg/l		8260B	07/03/15	20
4-Chlorotoluene	U	0.0070	0.020	mg/l		8260B	07/03/15	20
1,2-Dibromo-3-Chloropropane	U	0.027	0.10	mg/l		8260B	07/03/15	20
1,2-Dibromoethane	U	0.0076	0.020	mg/l		8260B	07/03/15	20
Dibromomethane	U	0.0069	0.020	mg/l		8260B	07/03/15	20
1,2-Dichlorobenzene	U	0.0070	0.020	mg/l		8260B	07/03/15	20
1,3-Dichlorobenzene	U	0.0044	0.020	mg/l		8260B	07/03/15	20
1,4-Dichlorobenzene	U	0.0055	0.020	mg/l		8260B	07/03/15	20
Dichlorodifluoromethane	U	0.011	0.10	mg/l		8260B	07/03/15	20
1,1-Dichloroethane	U	0.0052	0.020	mg/l		8260B	07/03/15	20
1,2-Dichloroethane	U	0.0072	0.020	mg/l		8260B	07/03/15	20
1,1-Dichloroethene	U	0.0080	0.020	mg/l		8260B	07/03/15	20
cis-1,2-Dichloroethene	U	0.0052	0.020	mg/l		8260B	07/03/15	20
trans-1,2-Dichloroethene	U	0.0079	0.020	mg/l		8260B	07/03/15	20
1,2-Dichloropropane	U	0.0061	0.020	mg/l		8260B	07/03/15	20
1,1-Dichloropropene	U	0.0070	0.020	mg/l		8260B	07/03/15	20
1,3-Dichloropropane	U	0.0073	0.020	mg/l		8260B	07/03/15	20
cis-1,3-Dichloropropene	U	0.0084	0.020	mg/l		8260B	07/03/15	20
trans-1,3-Dichloropropene	U	0.0084	0.020	mg/l		8260B	07/03/15	20
2,2-Dichloropropane	U	0.0064	0.020	mg/l		8260B	07/03/15	20
Di-isopropyl ether	U	0.0064	0.020	mg/l		8260B	07/03/15	20
Ethylbenzene	0.11	0.0077	0.020	mg/l		8260B	07/03/15	20
Hexachloro-1,3-butadiene	U	0.0051	0.020	mg/l		8260B	07/03/15	20
Isopropylbenzene	0.027	0.0065	0.020	mg/l		8260B	07/03/15	20

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Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-09

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-10

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 11:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.0070	0.020	mg/l		8260B	07/03/15	20
2-Butanone (MEK)	U	0.079	0.20	mg/l		8260B	07/03/15	20
Methylene Chloride	U	0.020	0.10	mg/l		8260B	07/03/15	20
4-Methyl-2-pentanone (MIBK)	U	0.043	0.20	mg/l		8260B	07/03/15	20
Methyl tert-butyl ether	U	0.0073	0.020	mg/l		8260B	07/03/15	20
Naphthalene	2.5	0.020	0.10	mg/l		8260B	07/03/15	20
n-Propylbenzene	0.0074	0.0070	0.020	mg/l	J	8260B	07/03/15	20
Styrene	U	0.0061	0.020	mg/l		8260B	07/03/15	20
1,1,1,2-Tetrachloroethane	U	0.0077	0.020	mg/l		8260B	07/03/15	20
1,1,2,2-Tetrachloroethane	U	0.0026	0.020	mg/l		8260B	07/03/15	20
1,1,2-Trichlorotrifluoroethane	U	0.0061	0.020	mg/l		8260B	07/03/15	20
Tetrachloroethene	U	0.0074	0.020	mg/l		8260B	07/03/15	20
Toluene	U	0.016	0.10	mg/l		8260B	07/03/15	20
1,2,3-Trichlorobenzene	U	0.0046	0.020	mg/l		8260B	07/03/15	20
1,2,4-Trichlorobenzene	U	0.0071	0.020	mg/l		8260B	07/03/15	20
1,1,1-Trichloroethane	U	0.0064	0.020	mg/l		8260B	07/03/15	20
1,1,2-Trichloroethane	U	0.0077	0.020	mg/l		8260B	07/03/15	20
Trichloroethene	U	0.0080	0.020	mg/l		8260B	07/03/15	20
Trichlorofluoromethane	U	0.024	0.10	mg/l		8260B	07/03/15	20
1,2,3-Trichloropropane	U	0.016	0.050	mg/l		8260B	07/03/15	20
1,2,4-Trimethylbenzene	0.12	0.0075	0.020	mg/l		8260B	07/03/15	20
1,2,3-Trimethylbenzene	0.041	0.0064	0.020	mg/l		8260B	07/03/15	20
1,3,5-Trimethylbenzene	0.034	0.0077	0.020	mg/l		8260B	07/03/15	20
Vinyl chloride	U	0.0052	0.020	mg/l		8260B	07/03/15	20
Xylenes, Total	0.14	0.021	0.060	mg/l		8260B	07/03/15	20
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	101.			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	103.			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.012	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthene	0.18	0.0040	0.020	mg/l		8270C-S	06/26/15	400
Acenaphthylene	0.069	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)anthracene	0.000082	0.0000041	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)pyrene	U	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(b)fluoranthene	0.000013	0.0000021	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(g,h,i)perylene	0.0000099	0.0000023	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Chrysene	0.000049	0.000011	0.000050	mg/l	J	8270C-S	06/25/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	06/25/15	1
Fluoranthene	0.0035	0.000016	0.000050	mg/l		8270C-S	06/25/15	1
Fluorene	0.020	0.0000085	0.000050	mg/l		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

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Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-09

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-10

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 11:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000015	0.000050	mg/l		8270C-S	06/25/15	1
Naphthalene	1.8	0.0079	0.10	mg/l		8270C-S	06/26/15	400
Phenanthrene	0.064	0.0000082	0.000050	mg/l		8270C-S	06/25/15	1
Pyrene	0.0045	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
1-Methylnaphthalene	0.61	0.0033	0.10	mg/l		8270C-S	06/26/15	400
2-Methylnaphthalene	0.27	0.0036	0.10	mg/l		8270C-S	06/26/15	400
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/25/15	1
Surrogate Recovery								
Nitrobenzene-d5	92.3			% Rec.		8270C-S	06/25/15	1
2-Fluorobiphenyl	81.5			% Rec.		8270C-S	06/25/15	1
p-Terphenyl-d14	78.2			% Rec.		8270C-S	06/25/15	1

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Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-10

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-11

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 14:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	07/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	07/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	07/03/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	07/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	07/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	07/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	07/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	07/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	07/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	07/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	07/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	07/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	07/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Isopropylbenzene	0.00037	0.00033	0.0010	mg/l	J	8260B	07/03/15	1

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July 06, 2015

ESC Sample # : L772975-10

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-11

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 14:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	07/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	07/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	07/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Naphthalene	0.0056	0.0010	0.0050	mg/l		8260B	07/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	07/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	07/03/15	1
1,2,4-Trichlorobenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	07/03/15	1
1,2,4-Trimethylbenzene	0.00055	0.00037	0.0010	mg/l	J	8260B	07/03/15	1
1,2,3-Trimethylbenzene	0.0019	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	07/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Xylenes, Total	0.0044	0.0011	0.0030	mg/l		8260B	07/03/15	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	102.			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	102.			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0063	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthene	0.0033	0.000010	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthylene	0.0050	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)anthracene	0.00043	0.0000041	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)pyrene	0.00014	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(b)fluoranthene	0.00011	0.0000021	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(g,h,i)perylene	0.000046	0.0000023	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(k)fluoranthene	0.000020	0.000014	0.000050	mg/l	J	8270C-S	06/25/15	1
Chrysene	0.00036	0.000011	0.000050	mg/l		8270C-S	06/25/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	06/25/15	1
Fluoranthene	0.0040	0.000016	0.000050	mg/l		8270C-S	06/25/15	1
Fluorene	0.00094	0.0000085	0.000050	mg/l		8270C-S	06/25/15	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-10

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-11

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 14:40

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000036	0.000015	0.000050	mg/l	J	8270C-S	06/25/15	1
Naphthalene	0.0011	0.000020	0.00025	mg/l		8270C-S	06/25/15	1
Phenanthrene	0.0054	0.0000082	0.000050	mg/l		8270C-S	06/25/15	1
Pyrene	0.0061	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
1-Methylnaphthalene	0.0018	0.0000082	0.00025	mg/l		8270C-S	06/25/15	1
2-Methylnaphthalene	0.00012	0.0000090	0.00025	mg/l	J	8270C-S	06/25/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/25/15	1
Surrogate Recovery								
Nitrobenzene-d5	77.4			% Rec.		8270C-S	06/25/15	1
2-Fluorobiphenyl	86.1			% Rec.		8270C-S	06/25/15	1
p-Terphenyl-d14	75.1			% Rec.		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-11

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-12

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 09:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	07/03/15	1
Acrolein	U	0.0089	0.050	mg/l	J3	8260B	07/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	07/03/15	1
Benzene	0.0017	0.00033	0.0010	mg/l		8260B	07/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	07/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	07/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	07/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	07/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	07/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	07/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	07/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	07/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	07/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	07/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Isopropylbenzene	0.00042	0.00033	0.0010	mg/l	J	8260B	07/03/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-11

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-12

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 09:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	0.00045	0.00035	0.0010	mg/l	J	8260B	07/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	07/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	07/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	07/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Naphthalene	0.067	0.0010	0.0050	mg/l		8260B	07/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	07/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	07/03/15	1
1,2,4-Trichlorobenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	07/03/15	1
1,2,4-Trimethylbenzene	0.0048	0.00037	0.0010	mg/l		8260B	07/03/15	1
1,2,3-Trimethylbenzene	0.0030	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,3,5-Trimethylbenzene	0.0030	0.00039	0.0010	mg/l		8260B	07/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Xylenes, Total	0.0075	0.0011	0.0030	mg/l		8260B	07/03/15	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	90.5			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	95.8			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0046	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthene	0.043	0.000010	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthylene	0.0045	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)anthracene	0.00040	0.0000041	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)pyrene	0.00019	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(b)fluoranthene	0.00015	0.0000021	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(g,h,i)perylene	0.000081	0.0000023	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(k)fluoranthene	0.000057	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Chrysene	0.00036	0.000011	0.000050	mg/l		8270C-S	06/25/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	06/25/15	1
Fluoranthene	0.0026	0.000016	0.000050	mg/l		8270C-S	06/25/15	1
Fluorene	0.012	0.0000085	0.000050	mg/l		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-11

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-12

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 09:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.000068	0.000015	0.000050	mg/l		8270C-S	06/25/15	1
Naphthalene	0.0030	0.000020	0.00025	mg/l		8270C-S	06/25/15	1
Phenanthrene	0.0032	0.0000082	0.000050	mg/l		8270C-S	06/25/15	1
Pyrene	0.0034	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
1-Methylnaphthalene	0.045	0.0000082	0.00025	mg/l		8270C-S	06/25/15	1
2-Methylnaphthalene	0.0066	0.0000090	0.00025	mg/l		8270C-S	06/25/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/25/15	1
Surrogate Recovery								
Nitrobenzene-d5	88.2			% Rec.		8270C-S	06/25/15	1
2-Fluorobiphenyl	85.5			% Rec.		8270C-S	06/25/15	1
p-Terphenyl-d14	73.9			% Rec.		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-12

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-13

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 13:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	07/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	07/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	07/03/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	07/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	07/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	07/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	07/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	07/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	07/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	07/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	07/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	07/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	07/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Ethylbenzene	0.00045	0.00038	0.0010	mg/l	J	8260B	07/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	07/03/15	1

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-12

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-13

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 13:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	07/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	07/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	07/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Naphthalene	0.0035	0.0010	0.0050	mg/l	J	8260B	07/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	07/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	07/03/15	1
1,2,4-Trichlorobenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	07/03/15	1
1,2,4-Trimethylbenzene	0.00047	0.00037	0.0010	mg/l	J	8260B	07/03/15	1
1,2,3-Trimethylbenzene	0.00032	0.00032	0.0010	mg/l	J	8260B	07/03/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	07/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	07/03/15	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	103.			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	107.			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.00055	0.000028	0.00010	mg/l		8270C-S	06/25/15	2
Acenaphthene	0.00050	0.000020	0.00010	mg/l		8270C-S	06/25/15	2
Acenaphthylene	0.00094	0.000024	0.00010	mg/l		8270C-S	06/25/15	2
Benzo(a)anthracene	0.000090	0.0000082	0.00010	mg/l	J	8270C-S	06/25/15	2
Benzo(a)pyrene	0.000042	0.000023	0.00010	mg/l	J	8270C-S	06/25/15	2
Benzo(b)fluoranthene	0.000039	0.0000042	0.00010	mg/l	J	8270C-S	06/25/15	2
Benzo(g,h,i)perylene	0.000025	0.0000045	0.00010	mg/l	J	8270C-S	06/25/15	2
Benzo(k)fluoranthene	U	0.000027	0.00010	mg/l		8270C-S	06/25/15	2
Chrysene	0.000086	0.000022	0.00010	mg/l	J	8270C-S	06/25/15	2
Dibenz(a,h)anthracene	U	0.0000079	0.00010	mg/l		8270C-S	06/25/15	2
Fluoranthene	0.00044	0.000031	0.00010	mg/l		8270C-S	06/25/15	2
Fluorene	0.00038	0.000017	0.00010	mg/l		8270C-S	06/25/15	2

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-12

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-13

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/22/15 13:35

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000030	0.00010	mg/l		8270C-S	06/25/15	2
Naphthalene	0.0024	0.000040	0.00050	mg/l		8270C-S	06/25/15	2
Phenanthrene	0.00097	0.000016	0.00010	mg/l		8270C-S	06/25/15	2
Pyrene	0.00066	0.000023	0.00010	mg/l		8270C-S	06/25/15	2
1-Methylnaphthalene	0.0024	0.000016	0.00050	mg/l		8270C-S	06/25/15	2
2-Methylnaphthalene	0.000032	0.000018	0.00050	mg/l	J	8270C-S	06/25/15	2
2-Chloronaphthalene	U	0.000013	0.00050	mg/l		8270C-S	06/25/15	2
Surrogate Recovery								
Nitrobenzene-d5	84.9			% Rec.		8270C-S	06/25/15	2
2-Fluorobiphenyl	71.7			% Rec.		8270C-S	06/25/15	2
p-Terphenyl-d14	44.7			% Rec.	J2	8270C-S	06/25/15	2

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RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-13

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-14

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 09:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	07/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	07/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	07/03/15	1
Benzene	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	07/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	07/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	07/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	07/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	07/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	07/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	07/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	07/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	07/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	07/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	07/03/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-13

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-14

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 09:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	07/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	07/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	07/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Naphthalene	U	0.0010	0.0050	mg/l		8260B	07/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	07/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	07/03/15	1
1,2,4-Trichlorobenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	07/03/15	1
1,2,4-Trimethylbenzene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
1,2,3-Trimethylbenzene	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,3,5-Trimethylbenzene	U	0.00039	0.0010	mg/l		8260B	07/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	07/03/15	1
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	106.			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	103.			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.000063	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthene	U	0.000010	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthylene	0.00039	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)anthracene	0.00014	0.0000041	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)pyrene	0.00015	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(b)fluoranthene	0.00017	0.0000021	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(g,h,i)perylene	0.00022	0.0000023	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(k)fluoranthene	0.000063	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Chrysene	0.00016	0.000011	0.000050	mg/l		8270C-S	06/25/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	06/25/15	1
Fluoranthene	0.00014	0.000016	0.000050	mg/l		8270C-S	06/25/15	1
Fluorene	0.000042	0.0000085	0.000050	mg/l	J	8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-13

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-14

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 09:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.00014	0.000015	0.000050	mg/l		8270C-S	06/25/15	1
Naphthalene	0.000097	0.000020	0.00025	mg/l	J	8270C-S	06/25/15	1
Phenanthrene	0.000071	0.0000082	0.000050	mg/l		8270C-S	06/25/15	1
Pyrene	0.00028	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
1-Methylnaphthalene	0.000017	0.0000082	0.00025	mg/l	J	8270C-S	06/25/15	1
2-Methylnaphthalene	0.000021	0.0000090	0.00025	mg/l	J	8270C-S	06/25/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/25/15	1
Surrogate Recovery								
Nitrobenzene-d5	81.6			% Rec.		8270C-S	06/25/15	1
2-Fluorobiphenyl	79.5			% Rec.		8270C-S	06/25/15	1
p-Terphenyl-d14	55.9			% Rec.		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-14

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-15

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 11:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.050	0.25	mg/l		8260B	07/03/15	5
Acrolein	U	0.044	0.25	mg/l	J3	8260B	07/03/15	5
Acrylonitrile	U	0.0094	0.050	mg/l		8260B	07/03/15	5
Benzene	U	0.0016	0.0050	mg/l		8260B	07/03/15	5
Bromobenzene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
Bromodichloromethane	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
Bromoform	U	0.0023	0.0050	mg/l		8260B	07/03/15	5
Bromomethane	U	0.0043	0.025	mg/l		8260B	07/03/15	5
n-Butylbenzene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
sec-Butylbenzene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
tert-Butylbenzene	U	0.0020	0.0050	mg/l		8260B	07/03/15	5
Carbon tetrachloride	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
Chlorobenzene	U	0.0017	0.0050	mg/l		8260B	07/03/15	5
Chlorodibromomethane	U	0.0016	0.0050	mg/l		8260B	07/03/15	5
Chloroethane	U	0.0023	0.025	mg/l		8260B	07/03/15	5
2-Chloroethyl vinyl ether	U	0.015	0.25	mg/l		8260B	07/03/15	5
Chloroform	U	0.0016	0.025	mg/l		8260B	07/03/15	5
Chloromethane	U	0.0014	0.013	mg/l		8260B	07/03/15	5
2-Chlorotoluene	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
4-Chlorotoluene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
1,2-Dibromo-3-Chloropropane	U	0.0066	0.025	mg/l		8260B	07/03/15	5
1,2-Dibromoethane	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
Dibromomethane	U	0.0017	0.0050	mg/l		8260B	07/03/15	5
1,2-Dichlorobenzene	U	0.0017	0.0050	mg/l		8260B	07/03/15	5
1,3-Dichlorobenzene	U	0.0011	0.0050	mg/l		8260B	07/03/15	5
1,4-Dichlorobenzene	U	0.0014	0.0050	mg/l		8260B	07/03/15	5
Dichlorodifluoromethane	U	0.0028	0.025	mg/l		8260B	07/03/15	5
1,1-Dichloroethane	U	0.0013	0.0050	mg/l		8260B	07/03/15	5
1,2-Dichloroethane	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
1,1-Dichloroethene	U	0.0020	0.0050	mg/l		8260B	07/03/15	5
cis-1,2-Dichloroethene	U	0.0013	0.0050	mg/l		8260B	07/03/15	5
trans-1,2-Dichloroethene	U	0.0020	0.0050	mg/l		8260B	07/03/15	5
1,2-Dichloropropane	U	0.0015	0.0050	mg/l		8260B	07/03/15	5
1,1-Dichloropropene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
1,3-Dichloropropane	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
cis-1,3-Dichloropropene	U	0.0021	0.0050	mg/l		8260B	07/03/15	5
trans-1,3-Dichloropropene	U	0.0021	0.0050	mg/l		8260B	07/03/15	5
2,2-Dichloropropane	U	0.0016	0.0050	mg/l		8260B	07/03/15	5
Di-isopropyl ether	U	0.0016	0.0050	mg/l		8260B	07/03/15	5
Ethylbenzene	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
Hexachloro-1,3-butadiene	U	0.0013	0.0050	mg/l		8260B	07/03/15	5
Isopropylbenzene	U	0.0016	0.0050	mg/l		8260B	07/03/15	5

U = ND (Not Detected)
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RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-14

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-15

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 11:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
2-Butanone (MEK)	U	0.020	0.050	mg/l		8260B	07/03/15	5
Methylene Chloride	U	0.0050	0.025	mg/l		8260B	07/03/15	5
4-Methyl-2-pentanone (MIBK)	U	0.011	0.050	mg/l		8260B	07/03/15	5
Methyl tert-butyl ether	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
Naphthalene	0.15	0.0050	0.025	mg/l		8260B	07/03/15	5
n-Propylbenzene	U	0.0017	0.0050	mg/l		8260B	07/03/15	5
Styrene	U	0.0015	0.0050	mg/l		8260B	07/03/15	5
1,1,1,2-Tetrachloroethane	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
1,1,2,2-Tetrachloroethane	U	0.00065	0.0050	mg/l		8260B	07/03/15	5
1,1,2-Trichlorotrifluoroethane	U	0.0015	0.0050	mg/l		8260B	07/03/15	5
Tetrachloroethene	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
Toluene	U	0.0039	0.025	mg/l		8260B	07/03/15	5
1,2,3-Trichlorobenzene	U	0.0012	0.0050	mg/l		8260B	07/03/15	5
1,2,4-Trichlorobenzene	U	0.0018	0.0050	mg/l		8260B	07/03/15	5
1,1,1-Trichloroethane	U	0.0016	0.0050	mg/l		8260B	07/03/15	5
1,1,2-Trichloroethane	U	0.0019	0.0050	mg/l		8260B	07/03/15	5
Trichloroethene	U	0.0020	0.0050	mg/l		8260B	07/03/15	5
Trichlorofluoromethane	U	0.0060	0.025	mg/l		8260B	07/03/15	5
1,2,3-Trichloropropane	U	0.0040	0.013	mg/l		8260B	07/03/15	5
1,2,4-Trimethylbenzene	0.018	0.0019	0.0050	mg/l		8260B	07/03/15	5
1,2,3-Trimethylbenzene	0.013	0.0016	0.0050	mg/l		8260B	07/03/15	5
1,3,5-Trimethylbenzene	0.012	0.0019	0.0050	mg/l		8260B	07/03/15	5
Vinyl chloride	U	0.0013	0.0050	mg/l		8260B	07/03/15	5
Xylenes, Total	0.012	0.0053	0.015	mg/l	J	8260B	07/03/15	5
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	90.9			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	99.9			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.25	0.000070	0.00025	mg/l		8270C-S	06/26/15	5
Acenaphthene	0.11	0.000050	0.00025	mg/l		8270C-S	06/26/15	5
Acenaphthylene	0.086	0.000060	0.00025	mg/l		8270C-S	06/26/15	5
Benzo(a)anthracene	0.14	0.000020	0.00025	mg/l		8270C-S	06/26/15	5
Benzo(a)pyrene	0.093	0.00058	0.0025	mg/l		8270C-S	06/29/15	50
Benzo(b)fluoranthene	0.073	0.00011	0.0025	mg/l		8270C-S	06/29/15	50
Benzo(g,h,i)perylene	0.033	0.00011	0.0025	mg/l		8270C-S	06/29/15	50
Benzo(k)fluoranthene	0.021	0.00068	0.0025	mg/l		8270C-S	06/29/15	50
Chrysene	0.099	0.000054	0.00025	mg/l		8270C-S	06/26/15	5
Dibenz(a,h)anthracene	0.0079	0.00020	0.0025	mg/l		8270C-S	06/29/15	50
Fluoranthene	0.43	0.000078	0.00025	mg/l		8270C-S	06/26/15	5
Fluorene	0.13	0.000042	0.00025	mg/l		8270C-S	06/26/15	5

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-14

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-15

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 11:55

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.025	0.00074	0.0025	mg/l		8270C-S	06/29/15	50
Naphthalene	0.26	0.00099	0.013	mg/l		8270C-S	06/29/15	50
Phenanthrene	0.65	0.00041	0.0025	mg/l		8270C-S	06/29/15	50
Pyrene	0.66	0.00058	0.0025	mg/l		8270C-S	06/29/15	50
1-Methylnaphthalene	0.31	0.00041	0.013	mg/l		8270C-S	06/29/15	50
2-Methylnaphthalene	0.24	0.00045	0.013	mg/l		8270C-S	06/29/15	50
2-Chloronaphthalene	U	0.000032	0.0013	mg/l		8270C-S	06/26/15	5
Surrogate Recovery								
Nitrobenzene-d5	424.			% Rec.	J7	8270C-S	06/29/15	50
2-Fluorobiphenyl	64.6			% Rec.		8270C-S	06/26/15	5
p-Terphenyl-d14	80.3			% Rec.		8270C-S	06/26/15	5

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-15

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-16

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 12:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	07/03/15	1
Acrolein	U	0.0089	0.050	mg/l		8260B	07/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	07/03/15	1
Benzene	0.00046	0.00033	0.0010	mg/l	J	8260B	07/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	07/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	07/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	07/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	07/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	07/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	07/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	07/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	07/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	07/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	07/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Ethylbenzene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Isopropylbenzene	U	0.00033	0.0010	mg/l		8260B	07/03/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-15

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-16

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 12:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	07/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	07/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	07/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Naphthalene	0.038	0.0010	0.0050	mg/l		8260B	07/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	07/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	07/03/15	1
1,2,4-Trichlorobenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	07/03/15	1
1,2,4-Trimethylbenzene	0.0017	0.00037	0.0010	mg/l		8260B	07/03/15	1
1,2,3-Trimethylbenzene	0.00091	0.00032	0.0010	mg/l	J	8260B	07/03/15	1
1,3,5-Trimethylbenzene	0.0010	0.00039	0.0010	mg/l		8260B	07/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Xylenes, Total	U	0.0011	0.0030	mg/l		8260B	07/03/15	1
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	103.			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	104.			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.012	0.000014	0.000050	mg/l		8270C-S	06/26/15	1
Acenaphthene	0.081	0.000010	0.000050	mg/l		8270C-S	06/26/15	1
Acenaphthylene	0.021	0.000012	0.000050	mg/l		8270C-S	06/26/15	1
Benzo(a)anthracene	0.0038	0.0000041	0.000050	mg/l		8270C-S	06/26/15	1
Benzo(a)pyrene	0.0024	0.000012	0.000050	mg/l		8270C-S	06/26/15	1
Benzo(b)fluoranthene	0.0027	0.0000021	0.000050	mg/l		8270C-S	06/26/15	1
Benzo(g,h,i)perylene	0.0017	0.0000023	0.000050	mg/l		8270C-S	06/26/15	1
Benzo(k)fluoranthene	0.0011	0.000014	0.000050	mg/l		8270C-S	06/26/15	1
Chrysene	0.0033	0.000011	0.000050	mg/l		8270C-S	06/26/15	1
Dibenz(a,h)anthracene	0.00028	0.0000040	0.000050	mg/l		8270C-S	06/26/15	1
Fluoranthene	0.0079	0.000016	0.000050	mg/l		8270C-S	06/26/15	1
Fluorene	0.030	0.0000085	0.000050	mg/l		8270C-S	06/26/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-15

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : MW-16

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 12:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	0.00094	0.000015	0.000050	mg/l		8270C-S	06/26/15	1
Naphthalene	0.029	0.000020	0.00025	mg/l		8270C-S	06/26/15	1
Phenanthrene	0.036	0.0000082	0.000050	mg/l		8270C-S	06/26/15	1
Pyrene	0.015	0.000012	0.000050	mg/l		8270C-S	06/26/15	1
1-Methylnaphthalene	0.11	0.000041	0.0013	mg/l		8270C-S	06/29/15	5
2-Methylnaphthalene	0.030	0.0000090	0.00025	mg/l		8270C-S	06/26/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/26/15	1
Surrogate Recovery								
Nitrobenzene-d5	96.3			% Rec.		8270C-S	06/26/15	1
2-Fluorobiphenyl	89.1			% Rec.		8270C-S	06/26/15	1
p-Terphenyl-d14	77.1			% Rec.		8270C-S	06/26/15	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-16

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : DUP-062215

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.010	0.050	mg/l		8260B	07/03/15	1
Acrolein	U	0.0089	0.050	mg/l	J3	8260B	07/03/15	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	07/03/15	1
Benzene	0.0055	0.00033	0.0010	mg/l		8260B	07/03/15	1
Bromobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Bromodichloromethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Bromoform	U	0.00047	0.0010	mg/l		8260B	07/03/15	1
Bromomethane	U	0.00087	0.0050	mg/l		8260B	07/03/15	1
n-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
sec-Butylbenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
tert-Butylbenzene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Carbon tetrachloride	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Chlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Chlorodibromomethane	U	0.00033	0.0010	mg/l		8260B	07/03/15	1
Chloroethane	U	0.00045	0.0050	mg/l		8260B	07/03/15	1
2-Chloroethyl vinyl ether	U	0.0030	0.050	mg/l		8260B	07/03/15	1
Chloroform	U	0.00032	0.0050	mg/l		8260B	07/03/15	1
Chloromethane	U	0.00028	0.0025	mg/l		8260B	07/03/15	1
2-Chlorotoluene	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
4-Chlorotoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	07/03/15	1
1,2-Dibromoethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichlorobenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichlorobenzene	U	0.00022	0.0010	mg/l		8260B	07/03/15	1
1,4-Dichlorobenzene	U	0.00027	0.0010	mg/l		8260B	07/03/15	1
Dichlorodifluoromethane	U	0.00055	0.0050	mg/l		8260B	07/03/15	1
1,1-Dichloroethane	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloroethane	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
cis-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
trans-1,2-Dichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
1,2-Dichloropropane	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1-Dichloropropene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
1,3-Dichloropropane	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
cis-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
trans-1,3-Dichloropropene	U	0.00042	0.0010	mg/l		8260B	07/03/15	1
2,2-Dichloropropane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Di-isopropyl ether	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
Ethylbenzene	0.0014	0.00038	0.0010	mg/l		8260B	07/03/15	1
Hexachloro-1,3-butadiene	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Isopropylbenzene	0.00064	0.00033	0.0010	mg/l	J	8260B	07/03/15	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
Note:
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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-16

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : DUP-062215

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
p-Isopropyltoluene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
2-Butanone (MEK)	U	0.0039	0.010	mg/l		8260B	07/03/15	1
Methylene Chloride	U	0.0010	0.0050	mg/l		8260B	07/03/15	1
4-Methyl-2-pentanone (MIBK)	U	0.0021	0.010	mg/l		8260B	07/03/15	1
Methyl tert-butyl ether	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Naphthalene	0.028	0.0010	0.0050	mg/l		8260B	07/03/15	1
n-Propylbenzene	U	0.00035	0.0010	mg/l		8260B	07/03/15	1
Styrene	U	0.00031	0.0010	mg/l		8260B	07/03/15	1
1,1,1,2-Tetrachloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
1,1,2,2-Tetrachloroethane	U	0.00013	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichlorotrifluoroethane	U	0.00030	0.0010	mg/l		8260B	07/03/15	1
Tetrachloroethene	U	0.00037	0.0010	mg/l		8260B	07/03/15	1
Toluene	U	0.00078	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichlorobenzene	U	0.00023	0.0010	mg/l		8260B	07/03/15	1
1,2,4-Trichlorobenzene	U	0.00036	0.0010	mg/l		8260B	07/03/15	1
1,1,1-Trichloroethane	U	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,1,2-Trichloroethane	U	0.00038	0.0010	mg/l		8260B	07/03/15	1
Trichloroethene	U	0.00040	0.0010	mg/l		8260B	07/03/15	1
Trichlorofluoromethane	U	0.0012	0.0050	mg/l		8260B	07/03/15	1
1,2,3-Trichloropropane	U	0.00081	0.0025	mg/l		8260B	07/03/15	1
1,2,4-Trimethylbenzene	0.0024	0.00037	0.0010	mg/l		8260B	07/03/15	1
1,2,3-Trimethylbenzene	0.0015	0.00032	0.0010	mg/l		8260B	07/03/15	1
1,3,5-Trimethylbenzene	0.00059	0.00039	0.0010	mg/l	J	8260B	07/03/15	1
Vinyl chloride	U	0.00026	0.0010	mg/l		8260B	07/03/15	1
Xylenes, Total	0.0051	0.0011	0.0030	mg/l		8260B	07/03/15	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	07/03/15	1
Dibromofluoromethane	90.0			% Rec.		8260B	07/03/15	1
4-Bromofluorobenzene	96.8			% Rec.		8260B	07/03/15	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.000058	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthene	0.0027	0.000010	0.000050	mg/l		8270C-S	06/25/15	1
Acenaphthylene	0.00024	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
Benzo(a)anthracene	0.000034	0.0000041	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(a)pyrene	0.000025	0.000012	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(b)fluoranthene	0.000021	0.0000021	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(g,h,i)perylene	0.000013	0.0000023	0.000050	mg/l	J	8270C-S	06/25/15	1
Benzo(k)fluoranthene	U	0.000014	0.000050	mg/l		8270C-S	06/25/15	1
Chrysene	0.000026	0.000011	0.000050	mg/l	J	8270C-S	06/25/15	1
Dibenz(a,h)anthracene	U	0.0000040	0.000050	mg/l		8270C-S	06/25/15	1
Fluoranthene	0.000068	0.000016	0.000050	mg/l		8270C-S	06/25/15	1
Fluorene	0.00012	0.0000085	0.000050	mg/l		8270C-S	06/25/15	1

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REPORT OF ANALYSIS

Craig Lugowski
USA Environment, LP
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

July 06, 2015

ESC Sample # : L772975-16

Date Received : June 24, 2015
Description : Boulder 13th Street Plaza

Site ID :

Sample ID : DUP-062215

Project # : 5047-RC-0100

Collected By : Charles Magin
Collection Date : 06/23/15 00:00

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Indeno(1,2,3-cd)pyrene	U	0.000015	0.000050	mg/l		8270C-S	06/25/15	1
Naphthalene	0.00098	0.000020	0.00025	mg/l		8270C-S	06/25/15	1
Phenanthrene	0.000028	0.0000082	0.000050	mg/l	J	8270C-S	06/25/15	1
Pyrene	0.00010	0.000012	0.000050	mg/l		8270C-S	06/25/15	1
1-Methylnaphthalene	0.0038	0.0000082	0.00025	mg/l		8270C-S	06/25/15	1
2-Methylnaphthalene	0.00021	0.0000090	0.00025	mg/l	J	8270C-S	06/25/15	1
2-Chloronaphthalene	U	0.0000065	0.00025	mg/l		8270C-S	06/25/15	1
Surrogate Recovery								
Nitrobenzene-d5	79.6			% Rec.		8270C-S	06/25/15	1
2-Fluorobiphenyl	83.8			% Rec.		8270C-S	06/25/15	1
p-Terphenyl-d14	74.9			% Rec.		8270C-S	06/25/15	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD = TRRP SDL
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Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L772975-01	WG798082	SAMP	Benzo(a)anthracene	R3045705	J
	WG798082	SAMP	Benzo(b)fluoranthene	R3045705	J
	WG798082	SAMP	Phenanthrene	R3045705	J
	WG798082	SAMP	1-Methylnaphthalene	R3045705	J
	WG798082	SAMP	2-Methylnaphthalene	R3045705	J
L772975-02	WG798187	SAMP	Benzene	R3047499	J
	WG798187	SAMP	1,2,3-Trimethylbenzene	R3047499	J
	WG798082	SAMP	Anthracene	R3045705	J
	WG798082	SAMP	Benzo(a)anthracene	R3045705	J
	WG798082	SAMP	Benzo(a)pyrene	R3045705	J
	WG798082	SAMP	Benzo(b)fluoranthene	R3045705	J
	WG798082	SAMP	Benzo(g,h,i)perylene	R3045705	J
	WG798082	SAMP	Benzo(k)fluoranthene	R3045705	J
	WG798082	SAMP	Chrysene	R3045705	J
	WG798082	SAMP	Fluoranthene	R3045705	J
	WG798082	SAMP	Fluorene	R3045705	J
	WG798082	SAMP	Indeno(1,2,3-cd)pyrene	R3045705	J
	WG798082	SAMP	Phenanthrene	R3045705	J
	WG798082	SAMP	2-Methylnaphthalene	R3045705	J
L772975-03	WG798187	SAMP	Isopropylbenzene	R3047499	J
	WG798187	SAMP	1,3,5-Trimethylbenzene	R3047499	J
	WG798187	SAMP	Xylenes, Total	R3047499	J
	WG798082	SAMP	Dibenz(a,h)anthracene	R3045705	J
L772975-04	WG798187	SAMP	Naphthalene	R3047499	J
	WG798082	SAMP	Anthracene	R3045705	J
	WG798082	SAMP	Acenaphthylene	R3045705	J
	WG798082	SAMP	Benzo(a)anthracene	R3045705	J
	WG798082	SAMP	Benzo(a)pyrene	R3045705	J
	WG798082	SAMP	Benzo(b)fluoranthene	R3045705	J
	WG798082	SAMP	Benzo(g,h,i)perylene	R3045705	J
	WG798082	SAMP	Fluoranthene	R3045705	J
	WG798082	SAMP	Indeno(1,2,3-cd)pyrene	R3045705	J
	WG798082	SAMP	Phenanthrene	R3045705	J
	WG798082	SAMP	Pyrene	R3045705	J
	WG798082	SAMP	2-Methylnaphthalene	R3045705	J
L772975-05	WG798187	SAMP	Chloroform	R3047499	J
	WG798187	SAMP	Naphthalene	R3047499	J
	WG798082	SAMP	2-Methylnaphthalene	R3045705	J
L772975-06	WG798187	SAMP	n-Propylbenzene	R3047499	J
	WG798082	SAMP	Acenaphthene	R3045705	V
	WG798082	SAMP	Acenaphthylene	R3045705	V
	WG798082	SAMP	Dibenz(a,h)anthracene	R3045705	J
	WG798082	SAMP	Phenanthrene	R3045705	V
	WG798082	SAMP	Pyrene	R3045705	V
	WG798082	SAMP	2-Methylnaphthalene	R3045705	V
L772975-07	WG798187	SAMP	n-Propylbenzene	R3047499	J
	WG798187	SAMP	1,3,5-Trimethylbenzene	R3047499	J
	WG798082	SAMP	Benzo(g,h,i)perylene	R3045705	J
	WG798082	SAMP	Benzo(k)fluoranthene	R3045705	J
	WG798082	SAMP	Indeno(1,2,3-cd)pyrene	R3045705	J
L772975-08	WG800243	SAMP	2-Chloroethyl vinyl ether	R3047683	J6J3
	WG800243	SAMP	Isopropylbenzene	R3047683	J
	WG800243	SAMP	Naphthalene	R3047683	J6
	WG800243	SAMP	1,3,5-Trimethylbenzene	R3047683	J
	WG798082	SAMP	Benzo(a)anthracene	R3045705	J
	WG798082	SAMP	Benzo(b)fluoranthene	R3045705	J
	WG798082	SAMP	Benzo(g,h,i)perylene	R3045705	J
	WG798082	SAMP	Chrysene	R3045705	J
	WG798082	SAMP	Phenanthrene	R3045705	J
	WG798082	SAMP	2-Methylnaphthalene	R3045705	J
L772975-09	WG798187	SAMP	Benzene	R3047499	J
	WG798187	SAMP	n-Propylbenzene	R3047499	J
	WG798082	SAMP	Benzo(b)fluoranthene	R3045705	J
	WG798082	SAMP	Benzo(g,h,i)perylene	R3045705	J
	WG798082	SAMP	Chrysene	R3045705	J
L772975-10	WG798187	SAMP	Isopropylbenzene	R3047499	J
	WG798187	SAMP	1,2,4-Trimethylbenzene	R3047499	J
	WG798082	SAMP	Benzo(g,h,i)perylene	R3045705	J
	WG798082	SAMP	Benzo(k)fluoranthene	R3045705	J

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
	WG798082	SAMP	Indeno(1,2,3-cd)pyrene	R3045705	J
	WG798082	SAMP	2-Methylnaphthalene	R3045705	J
L772975-11	WG800243	SAMP	Acrolein	R3047683	J3
	WG800243	SAMP	Isopropylbenzene	R3047683	J
	WG800243	SAMP	p-Isopropyltoluene	R3047683	J
L772975-12	WG798187	SAMP	Ethylbenzene	R3047499	J
	WG798187	SAMP	Naphthalene	R3047499	J
	WG798187	SAMP	1,2,4-Trimethylbenzene	R3047499	J
	WG798187	SAMP	1,2,3-Trimethylbenzene	R3047499	J
	WG798082	SAMP	Benzo(a)anthracene	R3045705	J
	WG798082	SAMP	Benzo(a)pyrene	R3045705	J
	WG798082	SAMP	Benzo(b)fluoranthene	R3045705	J
	WG798082	SAMP	Benzo(g,h,i)perylene	R3045705	J
	WG798082	SAMP	Chrysene	R3045705	J
	WG798082	SAMP	2-Methylnaphthalene	R3045705	J
	WG798082	SAMP	p-Terphenyl-d14	R3045705	J2
L772975-13	WG798082	SAMP	Fluorene	R3045705	J
	WG798082	SAMP	Naphthalene	R3045705	J
	WG798082	SAMP	1-Methylnaphthalene	R3045705	J
	WG798082	SAMP	2-Methylnaphthalene	R3045705	J
L772975-14	WG800243	SAMP	Acrolein	R3047683	J3
	WG800243	SAMP	Xylenes, Total	R3047683	J
	WG798082	SAMP	Nitrobenzene-d5	R3046472	J7
L772975-15	WG798187	SAMP	Benzene	R3047499	J
	WG798187	SAMP	1,2,3-Trimethylbenzene	R3047499	J
L772975-16	WG800243	SAMP	Acrolein	R3047683	J3
	WG800243	SAMP	Isopropylbenzene	R3047683	J
	WG800243	SAMP	1,3,5-Trimethylbenzene	R3047683	J
	WG798082	SAMP	Benzo(a)anthracene	R3045705	J
	WG798082	SAMP	Benzo(a)pyrene	R3045705	J
	WG798082	SAMP	Benzo(b)fluoranthene	R3045705	J
	WG798082	SAMP	Benzo(g,h,i)perylene	R3045705	J
	WG798082	SAMP	Chrysene	R3045705	J
	WG798082	SAMP	Phenanthrene	R3045705	J
	WG798082	SAMP	2-Methylnaphthalene	R3045705	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
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
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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Craig Lugowski
17301 W. Colfax Avenue, Suite 152

Golden, CO 80401

Quality Assurance Report
Level II

L772975

July 06, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1-Methylnaphthalene	< .00025	mg/l			WG798082	06/25/15 04:28
2-Chloronaphthalene	< .00005	mg/l			WG798082	06/25/15 04:28
2-Methylnaphthalene	< .00025	mg/l			WG798082	06/25/15 04:28
Acenaphthene	< .00005	mg/l			WG798082	06/25/15 04:28
Acenaphthylene	< .00005	mg/l			WG798082	06/25/15 04:28
Anthracene	< .00005	mg/l			WG798082	06/25/15 04:28
Benzo(a)anthracene	< .00005	mg/l			WG798082	06/25/15 04:28
Benzo(a)pyrene	< .00005	mg/l			WG798082	06/25/15 04:28
Benzo(b)fluoranthene	< .00005	mg/l			WG798082	06/25/15 04:28
Benzo(g,h,i)perylene	< .00005	mg/l			WG798082	06/25/15 04:28
Benzo(k)fluoranthene	< .00005	mg/l			WG798082	06/25/15 04:28
Chrysene	< .00005	mg/l			WG798082	06/25/15 04:28
Dibenz(a,h)anthracene	< .00005	mg/l			WG798082	06/25/15 04:28
Fluoranthene	< .00005	mg/l			WG798082	06/25/15 04:28
Fluorene	< .00005	mg/l			WG798082	06/25/15 04:28
Indeno(1,2,3-cd)pyrene	< .00005	mg/l			WG798082	06/25/15 04:28
Naphthalene	< .00025	mg/l			WG798082	06/25/15 04:28
Phenanthrene	< .00005	mg/l			WG798082	06/25/15 04:28
Pyrene	< .00005	mg/l			WG798082	06/25/15 04:28
2-Fluorobiphenyl		% Rec.	85.00	55.5-150	WG798082	06/25/15 04:28
Nitrobenzene-d5		% Rec.	103.0	33.8-179	WG798082	06/25/15 04:28
p-Terphenyl-d14		% Rec.	72.70	46.2-163	WG798082	06/25/15 04:28
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG798187	07/02/15 21:21
1,1,1-Trichloroethane	< .001	mg/l			WG798187	07/02/15 21:21
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG798187	07/02/15 21:21
1,1,2-Trichloroethane	< .001	mg/l			WG798187	07/02/15 21:21
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG798187	07/02/15 21:21
1,1-Dichloroethane	< .001	mg/l			WG798187	07/02/15 21:21
1,1-Dichloroethene	< .001	mg/l			WG798187	07/02/15 21:21
1,1-Dichloropropene	< .001	mg/l			WG798187	07/02/15 21:21
1,2,3-Trichlorobenzene	< .001	mg/l			WG798187	07/02/15 21:21
1,2,3-Trichloropropane	< .001	mg/l			WG798187	07/02/15 21:21
1,2,3-Trimethylbenzene	< .001	mg/l			WG798187	07/02/15 21:21
1,2,4-Trichlorobenzene	< .001	mg/l			WG798187	07/02/15 21:21
1,2,4-Trimethylbenzene	< .001	mg/l			WG798187	07/02/15 21:21
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG798187	07/02/15 21:21
1,2-Dibromoethane	< .001	mg/l			WG798187	07/02/15 21:21
1,2-Dichlorobenzene	< .001	mg/l			WG798187	07/02/15 21:21
1,2-Dichloroethane	< .001	mg/l			WG798187	07/02/15 21:21
1,2-Dichloropropane	< .001	mg/l			WG798187	07/02/15 21:21
1,3,5-Trimethylbenzene	< .001	mg/l			WG798187	07/02/15 21:21
1,3-Dichlorobenzene	< .001	mg/l			WG798187	07/02/15 21:21
1,3-Dichloropropane	< .001	mg/l			WG798187	07/02/15 21:21
1,4-Dichlorobenzene	< .001	mg/l			WG798187	07/02/15 21:21
2,2-Dichloropropane	< .001	mg/l			WG798187	07/02/15 21:21
2-Butanone (MEK)	< .01	mg/l			WG798187	07/02/15 21:21
2-Chloroethyl vinyl ether	< .05	mg/l			WG798187	07/02/15 21:21
2-Chlorotoluene	< .001	mg/l			WG798187	07/02/15 21:21
4-Chlorotoluene	< .001	mg/l			WG798187	07/02/15 21:21
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG798187	07/02/15 21:21
Acetone	< .05	mg/l			WG798187	07/02/15 21:21
Acrolein	< .025	mg/l			WG798187	07/02/15 21:21
Acrylonitrile	< .01	mg/l			WG798187	07/02/15 21:21
Benzene	< .001	mg/l			WG798187	07/02/15 21:21
Bromobenzene	< .001	mg/l			WG798187	07/02/15 21:21
Bromodichloromethane	< .001	mg/l			WG798187	07/02/15 21:21
Bromoform	< .001	mg/l			WG798187	07/02/15 21:21

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USA Environment, LP
Craig Lugowski
17301 W. Colfax Avenue, Suite 152
Golden, CO 80401

Quality Assurance Report
Level II

July 06, 2015

L772975

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Bromomethane	< .005	mg/l			WG798187	07/02/15 21:21
Carbon tetrachloride	< .001	mg/l			WG798187	07/02/15 21:21
Chlorobenzene	< .001	mg/l			WG798187	07/02/15 21:21
Chlorodibromomethane	< .001	mg/l			WG798187	07/02/15 21:21
Chloroethane	< .005	mg/l			WG798187	07/02/15 21:21
Chloroform	< .005	mg/l			WG798187	07/02/15 21:21
Chloromethane	< .0025	mg/l			WG798187	07/02/15 21:21
cis-1,2-Dichloroethene	< .001	mg/l			WG798187	07/02/15 21:21
cis-1,3-Dichloropropene	< .001	mg/l			WG798187	07/02/15 21:21
Di-isopropyl ether	< .001	mg/l			WG798187	07/02/15 21:21
Dibromomethane	< .001	mg/l			WG798187	07/02/15 21:21
Dichlorodifluoromethane	< .005	mg/l			WG798187	07/02/15 21:21
Ethylbenzene	< .001	mg/l			WG798187	07/02/15 21:21
Hexachloro-1,3-butadiene	< .001	mg/l			WG798187	07/02/15 21:21
Isopropylbenzene	< .001	mg/l			WG798187	07/02/15 21:21
Methyl tert-butyl ether	< .001	mg/l			WG798187	07/02/15 21:21
Methylene Chloride	< .005	mg/l			WG798187	07/02/15 21:21
n-Butylbenzene	< .001	mg/l			WG798187	07/02/15 21:21
n-Propylbenzene	< .001	mg/l			WG798187	07/02/15 21:21
Naphthalene	< .005	mg/l			WG798187	07/02/15 21:21
p-Isopropyltoluene	< .001	mg/l			WG798187	07/02/15 21:21
sec-Butylbenzene	< .001	mg/l			WG798187	07/02/15 21:21
Styrene	< .001	mg/l			WG798187	07/02/15 21:21
tert-Butylbenzene	< .001	mg/l			WG798187	07/02/15 21:21
Tetrachloroethene	< .001	mg/l			WG798187	07/02/15 21:21
Toluene	< .005	mg/l			WG798187	07/02/15 21:21
trans-1,2-Dichloroethene	< .001	mg/l			WG798187	07/02/15 21:21
trans-1,3-Dichloropropene	< .001	mg/l			WG798187	07/02/15 21:21
Trichloroethene	< .001	mg/l			WG798187	07/02/15 21:21
Trichlorofluoromethane	< .005	mg/l			WG798187	07/02/15 21:21
Vinyl chloride	< .001	mg/l			WG798187	07/02/15 21:21
Xylenes, Total	< .003	mg/l			WG798187	07/02/15 21:21
4-Bromofluorobenzene		% Rec.	103.0	80.1-120	WG798187	07/02/15 21:21
Dibromofluoromethane		% Rec.	104.0	79-121	WG798187	07/02/15 21:21
Toluene-d8		% Rec.	102.0	90-115	WG798187	07/02/15 21:21
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG800243	07/03/15 16:54
1,1,1-Trichloroethane	< .001	mg/l			WG800243	07/03/15 16:54
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG800243	07/03/15 16:54
1,1,2-Trichloroethane	< .001	mg/l			WG800243	07/03/15 16:54
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG800243	07/03/15 16:54
1,1-Dichloroethane	< .001	mg/l			WG800243	07/03/15 16:54
1,1-Dichloroethene	< .001	mg/l			WG800243	07/03/15 16:54
1,1-Dichloropropene	< .001	mg/l			WG800243	07/03/15 16:54
1,2,3-Trichlorobenzene	< .001	mg/l			WG800243	07/03/15 16:54
1,2,3-Trichloropropane	< .001	mg/l			WG800243	07/03/15 16:54
1,2,3-Trimethylbenzene	< .001	mg/l			WG800243	07/03/15 16:54
1,2,4-Trichlorobenzene	< .001	mg/l			WG800243	07/03/15 16:54
1,2,4-Trimethylbenzene	< .001	mg/l			WG800243	07/03/15 16:54
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG800243	07/03/15 16:54
1,2-Dibromoethane	< .001	mg/l			WG800243	07/03/15 16:54
1,2-Dichlorobenzene	< .001	mg/l			WG800243	07/03/15 16:54
1,2-Dichloroethane	< .001	mg/l			WG800243	07/03/15 16:54
1,2-Dichloropropane	< .001	mg/l			WG800243	07/03/15 16:54
1,3,5-Trimethylbenzene	< .001	mg/l			WG800243	07/03/15 16:54
1,3-Dichlorobenzene	< .001	mg/l			WG800243	07/03/15 16:54
1,3-Dichloropropane	< .001	mg/l			WG800243	07/03/15 16:54
1,4-Dichlorobenzene	< .001	mg/l			WG800243	07/03/15 16:54

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Quality Assurance Report
Level II

L772975

July 06, 2015

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
2,2-Dichloropropane	< .001	mg/l			WG800243	07/03/15 16:54
2-Butanone (MEK)	< .01	mg/l			WG800243	07/03/15 16:54
2-Chloroethyl vinyl ether	< .05	mg/l			WG800243	07/03/15 16:54
2-Chlorotoluene	< .001	mg/l			WG800243	07/03/15 16:54
4-Chlorotoluene	< .001	mg/l			WG800243	07/03/15 16:54
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG800243	07/03/15 16:54
Acetone	< .05	mg/l			WG800243	07/03/15 16:54
Acrolein	< .025	mg/l			WG800243	07/03/15 16:54
Acrylonitrile	< .01	mg/l			WG800243	07/03/15 16:54
Benzene	< .001	mg/l			WG800243	07/03/15 16:54
Bromobenzene	< .001	mg/l			WG800243	07/03/15 16:54
Bromodichloromethane	< .001	mg/l			WG800243	07/03/15 16:54
Bromoform	< .001	mg/l			WG800243	07/03/15 16:54
Bromomethane	< .005	mg/l			WG800243	07/03/15 16:54
Carbon tetrachloride	< .001	mg/l			WG800243	07/03/15 16:54
Chlorobenzene	< .001	mg/l			WG800243	07/03/15 16:54
Chlorodibromomethane	< .001	mg/l			WG800243	07/03/15 16:54
Chloroethane	< .005	mg/l			WG800243	07/03/15 16:54
Chloroform	< .005	mg/l			WG800243	07/03/15 16:54
Chloromethane	< .0025	mg/l			WG800243	07/03/15 16:54
cis-1,2-Dichloroethene	< .001	mg/l			WG800243	07/03/15 16:54
cis-1,3-Dichloropropene	< .001	mg/l			WG800243	07/03/15 16:54
Di-isopropyl ether	< .001	mg/l			WG800243	07/03/15 16:54
Dibromomethane	< .001	mg/l			WG800243	07/03/15 16:54
Dichlorodifluoromethane	< .005	mg/l			WG800243	07/03/15 16:54
Ethylbenzene	< .001	mg/l			WG800243	07/03/15 16:54
Hexachloro-1,3-butadiene	< .001	mg/l			WG800243	07/03/15 16:54
Isopropylbenzene	< .001	mg/l			WG800243	07/03/15 16:54
Methyl tert-butyl ether	< .001	mg/l			WG800243	07/03/15 16:54
Methylene Chloride	< .005	mg/l			WG800243	07/03/15 16:54
n-Butylbenzene	< .001	mg/l			WG800243	07/03/15 16:54
n-Propylbenzene	< .001	mg/l			WG800243	07/03/15 16:54
Naphthalene	< .005	mg/l			WG800243	07/03/15 16:54
p-Isopropyltoluene	< .001	mg/l			WG800243	07/03/15 16:54
sec-Butylbenzene	< .001	mg/l			WG800243	07/03/15 16:54
Styrene	< .001	mg/l			WG800243	07/03/15 16:54
tert-Butylbenzene	< .001	mg/l			WG800243	07/03/15 16:54
Tetrachloroethene	< .001	mg/l			WG800243	07/03/15 16:54
Toluene	< .005	mg/l			WG800243	07/03/15 16:54
trans-1,2-Dichloroethene	< .001	mg/l			WG800243	07/03/15 16:54
trans-1,3-Dichloropropene	< .001	mg/l			WG800243	07/03/15 16:54
Trichloroethene	< .001	mg/l			WG800243	07/03/15 16:54
Trichlorofluoromethane	< .005	mg/l			WG800243	07/03/15 16:54
Vinyl chloride	< .001	mg/l			WG800243	07/03/15 16:54
Xylenes, Total	< .003	mg/l			WG800243	07/03/15 16:54
4-Bromofluorobenzene		% Rec.	94.50	80.1-120	WG800243	07/03/15 16:54
Dibromofluoromethane		% Rec.	89.20	79-121	WG800243	07/03/15 16:54
Toluene-d8		% Rec.	103.0	90-115	WG800243	07/03/15 16:54

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1-Methylnaphthalene	mg/l	.002	0.00163	81.6	68.3-144	WG798082
2-Chloronaphthalene	mg/l	.002	0.00175	87.3	69.7-140	WG798082
2-Methylnaphthalene	mg/l	.002	0.00166	82.8	67.6-143	WG798082
Acenaphthene	mg/l	.002	0.00177	88.6	67.7-153	WG798082
Acenaphthylene	mg/l	.002	0.00177	88.6	66.9-141	WG798082
Anthracene	mg/l	.002	0.00172	86.2	68.9-153	WG798082
Benzo(a)anthracene	mg/l	.002	0.00168	84.1	63.1-147	WG798082

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Quality Assurance Report
Level II

L772975

July 06, 2015

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Benzo(a)pyrene	mg/l	.002	0.00160	79.8	62.2-150	WG798082
Benzo(b)fluoranthene	mg/l	.002	0.00142	70.8	58.4-148	WG798082
Benzo(g,h,i)perylene	mg/l	.002	0.00149	74.5	57.4-152	WG798082
Benzo(k)fluoranthene	mg/l	.002	0.00159	79.4	60.5-154	WG798082
Chrysene	mg/l	.002	0.00158	79.1	64.8-155	WG798082
Dibenz(a,h)anthracene	mg/l	.002	0.00151	75.4	53.5-153	WG798082
Fluoranthene	mg/l	.002	0.00185	92.7	68.6-153	WG798082
Fluorene	mg/l	.002	0.00176	88.1	67.3-141	WG798082
Indeno(1,2,3-cd)pyrene	mg/l	.002	0.00151	75.7	57-155	WG798082
Naphthalene	mg/l	.002	0.00178	88.8	66.7-135	WG798082
Phenanthrene	mg/l	.002	0.00168	83.9	64.3-143	WG798082
Pyrene	mg/l	.002	0.00160	80.0	60.2-154	WG798082
2-Fluorobiphenyl				84.00	55.5-150	WG798082
Nitrobenzene-d5				102.0	33.8-179	WG798082
p-Terphenyl-d14				65.60	46.2-163	WG798082
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0246	98.6	78.5-125	WG798187
1,1,1-Trichloroethane	mg/l	.025	0.0254	102.	71.1-129	WG798187
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0292	117.	79.3-123	WG798187
1,1,2-Trichloroethane	mg/l	.025	0.0272	109.	81.6-120	WG798187
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0256	103.	62-141	WG798187
1,1-Dichloroethane	mg/l	.025	0.0270	108.	71.7-127	WG798187
1,1-Dichloroethene	mg/l	.025	0.0220	88.0	59.9-137	WG798187
1,1-Dichloropropene	mg/l	.025	0.0249	99.5	72.5-127	WG798187
1,2,3-Trichlorobenzene	mg/l	.025	0.0281	113.	75.7-134	WG798187
1,2,3-Trichloropropane	mg/l	.025	0.0272	109.	74.9-124	WG798187
1,2,3-Trimethylbenzene	mg/l	.025	0.0266	106.	79.9-118	WG798187
1,2,4-Trichlorobenzene	mg/l	.025	0.0265	106.	76.1-136	WG798187
1,2,4-Trimethylbenzene	mg/l	.025	0.0264	106.	79-122	WG798187
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0267	107.	64.8-131	WG798187
1,2-Dibromoethane	mg/l	.025	0.0274	110.	79.8-122	WG798187
1,2-Dichlorobenzene	mg/l	.025	0.0268	107.	84.7-118	WG798187
1,2-Dichloroethane	mg/l	.025	0.0259	103.	65.3-126	WG798187
1,2-Dichloropropane	mg/l	.025	0.0272	109.	77.4-125	WG798187
1,3,5-Trimethylbenzene	mg/l	.025	0.0272	109.	81-123	WG798187
1,3-Dichlorobenzene	mg/l	.025	0.0248	99.2	77.6-127	WG798187
1,3-Dichloropropane	mg/l	.025	0.0264	106.	80.6-115	WG798187
1,4-Dichlorobenzene	mg/l	.025	0.0247	98.8	82.2-114	WG798187
2,2-Dichloropropane	mg/l	.025	0.0268	107.	61.3-134	WG798187
2-Butanone (MEK)	mg/l	.125	0.143	115.	46.4-155	WG798187
2-Chloroethyl vinyl ether	mg/l	.125	0.130	104.	23.4-162	WG798187
2-Chlorotoluene	mg/l	.025	0.0261	104.	76.4-125	WG798187
4-Chlorotoluene	mg/l	.025	0.0260	104.	81.5-121	WG798187
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.141	113.	63.3-138	WG798187
Acetone	mg/l	.125	0.118	94.5	28.7-175	WG798187
Acrolein	mg/l	.125	0.0954	76.3	40.4-172	WG798187
Acrylonitrile	mg/l	.125	0.144	115.	58.2-145	WG798187
Benzene	mg/l	.025	0.0278	111.	73-122	WG798187
Bromobenzene	mg/l	.025	0.0265	106.	81.5-115	WG798187
Bromodichloromethane	mg/l	.025	0.0263	105.	75.5-121	WG798187
Bromoform	mg/l	.025	0.0248	99.2	71.5-131	WG798187
Bromomethane	mg/l	.025	0.0238	95.1	22.4-187	WG798187
Carbon tetrachloride	mg/l	.025	0.0254	101.	70.9-129	WG798187
Chlorobenzene	mg/l	.025	0.0252	101.	79.7-122	WG798187
Chlorodibromomethane	mg/l	.025	0.0258	103.	78.2-124	WG798187
Chloroethane	mg/l	.025	0.0221	88.4	41.2-153	WG798187
Chloroform	mg/l	.025	0.0272	109.	73.2-125	WG798187
Chloromethane	mg/l	.025	0.0246	98.2	55.8-134	WG798187

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Level II

L772975

July 06, 2015

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
cis-1,2-Dichloroethene	mg/l	.025	0.0287	115.	77.3-122	WG798187
cis-1,3-Dichloropropene	mg/l	.025	0.0274	110.	77.7-124	WG798187
Di-isopropyl ether	mg/l	.025	0.0260	104.	65.1-135	WG798187
Dibromomethane	mg/l	.025	0.0278	111.	79.5-118	WG798187
Dichlorodifluoromethane	mg/l	.025	0.0265	106.	56-134	WG798187
Ethylbenzene	mg/l	.025	0.0251	100.	80.9-121	WG798187
Hexachloro-1,3-butadiene	mg/l	.025	0.0233	93.2	73.7-133	WG798187
Isopropylbenzene	mg/l	.025	0.0259	104.	81.6-124	WG798187
Methyl tert-butyl ether	mg/l	.025	0.0283	113.	70.1-125	WG798187
Methylene Chloride	mg/l	.025	0.0271	108.	69.5-120	WG798187
n-Butylbenzene	mg/l	.025	0.0290	116.	75.9-134	WG798187
n-Propylbenzene	mg/l	.025	0.0267	107.	81.9-122	WG798187
Naphthalene	mg/l	.025	0.0294	118.	69.7-134	WG798187
p-Isopropyltoluene	mg/l	.025	0.0261	104.	77.6-129	WG798187
sec-Butylbenzene	mg/l	.025	0.0267	107.	80.6-126	WG798187
Styrene	mg/l	.025	0.0276	110.	79.9-124	WG798187
tert-Butylbenzene	mg/l	.025	0.0253	101.	79.3-127	WG798187
Tetrachloroethene	mg/l	.025	0.0245	98.0	73.5-130	WG798187
Toluene	mg/l	.025	0.0261	104.	77.9-116	WG798187
trans-1,2-Dichloroethene	mg/l	.025	0.0281	113.	72.6-125	WG798187
trans-1,3-Dichloropropene	mg/l	.025	0.0269	108.	73.5-127	WG798187
Trichloroethene	mg/l	.025	0.0263	105.	79.5-121	WG798187
Trichlorofluoromethane	mg/l	.025	0.0226	90.4	49.1-157	WG798187
Vinyl chloride	mg/l	.025	0.0241	96.4	61.5-134	WG798187
Xylenes, Total	mg/l	.075	0.0789	105.	79.2-122	WG798187
4-Bromofluorobenzene				106.0	80.1-120	WG798187
Dibromofluoromethane				105.0	79-121	WG798187
Toluene-d8				101.0	90-115	WG798187
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0244	97.6	78.5-125	WG800243
1,1,1-Trichloroethane	mg/l	.025	0.0246	98.3	71.1-129	WG800243
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0240	96.0	79.3-123	WG800243
1,1,2-Trichloroethane	mg/l	.025	0.0245	98.2	81.6-120	WG800243
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0283	113.	62-141	WG800243
1,1-Dichloroethane	mg/l	.025	0.0274	109.	71.7-127	WG800243
1,1-Dichloroethene	mg/l	.025	0.0295	118.	59.9-137	WG800243
1,1-Dichloropropene	mg/l	.025	0.0250	99.8	72.5-127	WG800243
1,2,3-Trichlorobenzene	mg/l	.025	0.0228	91.0	75.7-134	WG800243
1,2,3-Trichloropropane	mg/l	.025	0.0229	91.5	74.9-124	WG800243
1,2,3-Trimethylbenzene	mg/l	.025	0.0273	109.	79.9-118	WG800243
1,2,4-Trichlorobenzene	mg/l	.025	0.0238	95.4	76.1-136	WG800243
1,2,4-Trimethylbenzene	mg/l	.025	0.0256	102.	79-122	WG800243
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0196	78.3	64.8-131	WG800243
1,2-Dibromoethane	mg/l	.025	0.0233	93.2	79.8-122	WG800243
1,2-Dichlorobenzene	mg/l	.025	0.0260	104.	84.7-118	WG800243
1,2-Dichloroethane	mg/l	.025	0.0264	106.	65.3-126	WG800243
1,2-Dichloropropane	mg/l	.025	0.0273	109.	77.4-125	WG800243
1,3,5-Trimethylbenzene	mg/l	.025	0.0261	104.	81-123	WG800243
1,3-Dichlorobenzene	mg/l	.025	0.0243	97.4	77.6-127	WG800243
1,3-Dichloropropane	mg/l	.025	0.0257	103.	80.6-115	WG800243
1,4-Dichlorobenzene	mg/l	.025	0.0260	104.	82.2-114	WG800243
2,2-Dichloropropane	mg/l	.025	0.0265	106.	61.3-134	WG800243
2-Butanone (MEK)	mg/l	.125	0.136	109.	46.4-155	WG800243
2-Chloroethyl vinyl ether	mg/l	.125	0.120	96.1	23.4-162	WG800243
2-Chlorotoluene	mg/l	.025	0.0260	104.	76.4-125	WG800243
4-Chlorotoluene	mg/l	.025	0.0258	103.	81.5-121	WG800243
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.129	104.	63.3-138	WG800243
Acetone	mg/l	.125	0.125	100.	28.7-175	WG800243

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Craig Lugowski
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Golden, CO 80401

Quality Assurance Report
Level II

L772975

July 06, 2015

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Acrolein	mg/l	.125	0.102	81.7	40.4-172	WG800243
Acrylonitrile	mg/l	.125	0.132	106.	58.2-145	WG800243
Benzene	mg/l	.025	0.0278	111.	73-122	WG800243
Bromobenzene	mg/l	.025	0.0259	104.	81.5-115	WG800243
Bromodichloromethane	mg/l	.025	0.0243	97.1	75.5-121	WG800243
Bromoform	mg/l	.025	0.0203	81.3	71.5-131	WG800243
Bromomethane	mg/l	.025	0.0401	161.	22.4-187	WG800243
Carbon tetrachloride	mg/l	.025	0.0249	99.6	70.9-129	WG800243
Chlorobenzene	mg/l	.025	0.0266	106.	79.7-122	WG800243
Chlorodibromomethane	mg/l	.025	0.0233	93.3	78.2-124	WG800243
Chloroethane	mg/l	.025	0.0359	143.	41.2-153	WG800243
Chloroform	mg/l	.025	0.0258	103.	73.2-125	WG800243
Chloromethane	mg/l	.025	0.0274	110.	55.8-134	WG800243
cis-1,2-Dichloroethene	mg/l	.025	0.0263	105.	77.3-122	WG800243
cis-1,3-Dichloropropene	mg/l	.025	0.0258	103.	77.7-124	WG800243
Di-isopropyl ether	mg/l	.025	0.0289	115.	65.1-135	WG800243
Dibromomethane	mg/l	.025	0.0242	96.6	79.5-118	WG800243
Dichlorodifluoromethane	mg/l	.025	0.0267	107.	56-134	WG800243
Ethylbenzene	mg/l	.025	0.0268	107.	80.9-121	WG800243
Hexachloro-1,3-butadiene	mg/l	.025	0.0219	87.5	73.7-133	WG800243
Isopropylbenzene	mg/l	.025	0.0266	106.	81.6-124	WG800243
Methyl tert-butyl ether	mg/l	.025	0.0255	102.	70.1-125	WG800243
Methylene Chloride	mg/l	.025	0.0252	101.	69.5-120	WG800243
n-Butylbenzene	mg/l	.025	0.0290	116.	75.9-134	WG800243
n-Propylbenzene	mg/l	.025	0.0272	109.	81.9-122	WG800243
Naphthalene	mg/l	.025	0.0222	88.9	69.7-134	WG800243
p-Isopropyltoluene	mg/l	.025	0.0265	106.	77.6-129	WG800243
sec-Butylbenzene	mg/l	.025	0.0265	106.	80.6-126	WG800243
Styrene	mg/l	.025	0.0271	108.	79.9-124	WG800243
tert-Butylbenzene	mg/l	.025	0.0256	103.	79.3-127	WG800243
Tetrachloroethene	mg/l	.025	0.0245	98.0	73.5-130	WG800243
Toluene	mg/l	.025	0.0271	108.	77.9-116	WG800243
trans-1,2-Dichloroethene	mg/l	.025	0.0258	103.	72.6-125	WG800243
trans-1,3-Dichloropropene	mg/l	.025	0.0234	93.5	73.5-127	WG800243
Trichloroethene	mg/l	.025	0.0257	103.	79.5-121	WG800243
Trichlorofluoromethane	mg/l	.025	0.0291	116.	49.1-157	WG800243
Vinyl chloride	mg/l	.025	0.0286	115.	61.5-134	WG800243
Xylenes, Total	mg/l	.075	0.0792	106.	79.2-122	WG800243
4-Bromofluorobenzene				93.30	80.1-120	WG800243
Dibromofluoromethane				91.80	79-121	WG800243
Toluene-d8				102.0	90-115	WG800243

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1-Methylnaphthalene	mg/l	0.00163	0.00163	81.0	68.3-144	0.420	20	WG798082
2-Chloronaphthalene	mg/l	0.00180	0.00175	90.0	69.7-140	3.03	20	WG798082
2-Methylnaphthalene	mg/l	0.00167	0.00166	84.0	67.6-143	1.15	20	WG798082
Acenaphthene	mg/l	0.00178	0.00177	89.0	67.7-153	0.250	20	WG798082
Acenaphthylene	mg/l	0.00178	0.00177	89.0	66.9-141	0.540	20	WG798082
Anthracene	mg/l	0.00175	0.00172	87.0	68.9-153	1.39	20	WG798082
Benzo(a)anthracene	mg/l	0.00164	0.00168	82.0	63.1-147	2.28	20	WG798082
Benzo(a)pyrene	mg/l	0.00157	0.00160	79.0	62.2-150	1.40	20	WG798082
Benzo(b)fluoranthene	mg/l	0.00145	0.00142	73.0	58.4-148	2.46	20	WG798082
Benzo(g,h,i)perylene	mg/l	0.00149	0.00149	74.0	57.4-152	0.110	20	WG798082
Benzo(k)fluoranthene	mg/l	0.00161	0.00159	80.0	60.5-154	1.35	20	WG798082
Chrysene	mg/l	0.00166	0.00158	83.0	64.8-155	5.07	20	WG798082
Dibenz(a,h)anthracene	mg/l	0.00149	0.00151	74.0	53.5-153	1.48	20	WG798082
Fluoranthene	mg/l	0.00183	0.00185	91.0	68.6-153	1.60	20	WG798082

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July 06, 2015

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Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Fluorene	mg/l	0.00178	0.00176	89.0	67.3-141	1.20	20	WG798082
Indeno(1,2,3-cd)pyrene	mg/l	0.00150	0.00151	75.0	57-155	1.10	20	WG798082
Naphthalene	mg/l	0.00176	0.00178	88.0	66.7-135	0.690	20	WG798082
Phenanthrene	mg/l	0.00165	0.00168	82.0	64.3-143	1.59	20	WG798082
Pyrene	mg/l	0.00168	0.00160	84.0	60.2-154	5.08	20	WG798082
2-Fluorobiphenyl				84.00	55.5-150			WG798082
Nitrobenzene-d5				103.0	33.8-179			WG798082
p-Terphenyl-d14				67.70	46.2-163			WG798082
1,1,1,2-Tetrachloroethane	mg/l	0.0240	0.0246	96.0	78.5-125	2.48	20	WG798187
1,1,1-Trichloroethane	mg/l	0.0247	0.0254	99.0	71.1-129	2.71	20	WG798187
1,1,2,2-Tetrachloroethane	mg/l	0.0278	0.0292	111.	79.3-123	5.05	20	WG798187
1,1,2-Trichloroethane	mg/l	0.0270	0.0272	108.	81.6-120	0.880	20	WG798187
1,1,2-Trichlorotrifluoroethane	mg/l	0.0261	0.0256	104.	62-141	1.84	20	WG798187
1,1-Dichloroethane	mg/l	0.0266	0.0270	106.	71.7-127	1.52	20	WG798187
1,1-Dichloroethene	mg/l	0.0219	0.0220	87.0	59.9-137	0.640	20	WG798187
1,1-Dichloropropene	mg/l	0.0262	0.0249	105.	72.5-127	5.29	20	WG798187
1,2,3-Trichlorobenzene	mg/l	0.0262	0.0281	105.	75.7-134	7.11	20	WG798187
1,2,3-Trichloropropane	mg/l	0.0250	0.0272	100.	74.9-124	8.39	20	WG798187
1,2,3-Trimethylbenzene	mg/l	0.0254	0.0266	102.	79.9-118	4.60	20	WG798187
1,2,4-Trichlorobenzene	mg/l	0.0255	0.0265	102.	76.1-136	3.69	20	WG798187
1,2,4-Trimethylbenzene	mg/l	0.0249	0.0264	100.	79-122	5.81	20	WG798187
1,2-Dibromo-3-Chloropropane	mg/l	0.0242	0.0267	97.0	64.8-131	9.75	20	WG798187
1,2-Dibromoethane	mg/l	0.0266	0.0274	106.	79.8-122	2.93	20	WG798187
1,2-Dichlorobenzene	mg/l	0.0264	0.0268	106.	84.7-118	1.48	20	WG798187
1,2-Dichloroethane	mg/l	0.0258	0.0259	103.	65.3-126	0.160	20	WG798187
1,2-Dichloropropane	mg/l	0.0265	0.0272	106.	77.4-125	2.34	20	WG798187
1,3,5-Trimethylbenzene	mg/l	0.0256	0.0272	102.	81-123	6.33	20	WG798187
1,3-Dichlorobenzene	mg/l	0.0241	0.0248	96.0	77.6-127	2.90	20	WG798187
1,3-Dichloropropane	mg/l	0.0251	0.0264	100.	80.6-115	5.06	20	WG798187
1,4-Dichlorobenzene	mg/l	0.0241	0.0247	96.0	82.2-114	2.29	20	WG798187
2,2-Dichloropropane	mg/l	0.0255	0.0268	102.	61.3-134	5.14	20	WG798187
2-Butanone (MEK)	mg/l	0.143	0.143	114.	46.4-155	0.340	20	WG798187
2-Chloroethyl vinyl ether	mg/l	0.131	0.130	105.	23.4-162	0.970	23.5	WG798187
2-Chlorotoluene	mg/l	0.0250	0.0261	100.	76.4-125	4.21	20	WG798187
4-Chlorotoluene	mg/l	0.0253	0.0260	101.	81.5-121	2.61	20	WG798187
4-Methyl-2-pentanone (MIBK)	mg/l	0.142	0.141	114.	63.3-138	0.760	20	WG798187
Acetone	mg/l	0.124	0.118	99.0	28.7-175	4.81	20.9	WG798187
Acrolein	mg/l	0.104	0.0954	83.0	40.4-172	8.34	20	WG798187
Acrylonitrile	mg/l	0.137	0.144	110.	58.2-145	4.83	20	WG798187
Benzene	mg/l	0.0278	0.0278	111.	73-122	0.0300	20	WG798187
Bromobenzene	mg/l	0.0254	0.0265	102.	81.5-115	4.16	20	WG798187
Bromodichloromethane	mg/l	0.0258	0.0263	103.	75.5-121	1.84	20	WG798187
Bromoform	mg/l	0.0235	0.0248	94.0	71.5-131	5.20	20	WG798187
Bromomethane	mg/l	0.0224	0.0238	90.0	22.4-187	6.04	20	WG798187
Carbon tetrachloride	mg/l	0.0254	0.0254	101.	70.9-129	0.0700	20	WG798187
Chlorobenzene	mg/l	0.0248	0.0252	99.0	79.7-122	1.63	20	WG798187
Chlorodibromomethane	mg/l	0.0246	0.0258	98.0	78.2-124	4.55	20	WG798187
Chloroethane	mg/l	0.0217	0.0221	87.0	41.2-153	1.95	20	WG798187
Chloroform	mg/l	0.0272	0.0272	109.	73.2-125	0.190	20	WG798187
Chloromethane	mg/l	0.0239	0.0246	96.0	55.8-134	2.71	20	WG798187
cis-1,2-Dichloroethene	mg/l	0.0288	0.0287	115.	77.3-122	0.160	20	WG798187
cis-1,3-Dichloropropene	mg/l	0.0270	0.0274	108.	77.7-124	1.41	20	WG798187
Di-isopropyl ether	mg/l	0.0265	0.0260	106.	65.1-135	1.92	20	WG798187
Dibromomethane	mg/l	0.0274	0.0278	110.	79.5-118	1.31	20	WG798187
Dichlorodifluoromethane	mg/l	0.0273	0.0265	109.	56-134	2.70	20	WG798187
Ethylbenzene	mg/l	0.0250	0.0251	100.	80.9-121	0.370	20	WG798187
Hexachloro-1,3-butadiene	mg/l	0.0228	0.0233	91.0	73.7-133	2.03	20	WG798187

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Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Isopropylbenzene	mg/l	0.0249	0.0259	100.	81.6-124	4.12	20	WG798187
Methyl tert-butyl ether	mg/l	0.0275	0.0283	110.	70.1-125	2.89	20	WG798187
Methylene Chloride	mg/l	0.0269	0.0271	107.	69.5-120	0.790	20	WG798187
n-Butylbenzene	mg/l	0.0270	0.0290	108.	75.9-134	7.15	20	WG798187
n-Propylbenzene	mg/l	0.0254	0.0267	101.	81.9-122	5.20	20	WG798187
Naphthalene	mg/l	0.0280	0.0294	112.	69.7-134	4.99	20	WG798187
p-Isopropyltoluene	mg/l	0.0255	0.0261	102.	77.6-129	2.30	20	WG798187
sec-Butylbenzene	mg/l	0.0261	0.0267	104.	80.6-126	2.25	20	WG798187
Styrene	mg/l	0.0270	0.0276	108.	79.9-124	2.34	20	WG798187
tert-Butylbenzene	mg/l	0.0244	0.0253	98.0	79.3-127	3.60	20	WG798187
Tetrachloroethene	mg/l	0.0241	0.0245	96.0	73.5-130	1.42	20	WG798187
Toluene	mg/l	0.0262	0.0261	105.	77.9-116	0.540	20	WG798187
trans-1,2-Dichloroethene	mg/l	0.0291	0.0281	116.	72.6-125	3.39	20	WG798187
trans-1,3-Dichloropropene	mg/l	0.0266	0.0269	106.	73.5-127	1.45	20	WG798187
Trichloroethene	mg/l	0.0259	0.0263	104.	79.5-121	1.52	20	WG798187
Trichlorofluoromethane	mg/l	0.0227	0.0226	91.0	49.1-157	0.450	20	WG798187
Vinyl chloride	mg/l	0.0240	0.0241	96.0	61.5-134	0.340	20	WG798187
Xylenes, Total	mg/l	0.0750	0.0789	100.	79.2-122	5.05	20	WG798187
4-Bromofluorobenzene				98.50	80.1-120			WG798187
Dibromofluoromethane				104.0	79-121			WG798187
Toluene-d8				105.0	90-115			WG798187
1,1,1,2-Tetrachloroethane	mg/l	0.0248	0.0244	99.0	78.5-125	1.58	20	WG800243
1,1,1-Trichloroethane	mg/l	0.0244	0.0246	97.0	71.1-129	0.840	20	WG800243
1,1,2,2-Tetrachloroethane	mg/l	0.0243	0.0240	97.0	79.3-123	1.38	20	WG800243
1,1,2-Trichloroethane	mg/l	0.0248	0.0245	99.0	81.6-120	0.820	20	WG800243
1,1,2-Trichlorotrifluoroethane	mg/l	0.0279	0.0283	112.	62-141	1.35	20	WG800243
1,1-Dichloroethane	mg/l	0.0269	0.0274	108.	71.7-127	1.69	20	WG800243
1,1-Dichloroethene	mg/l	0.0287	0.0295	115.	59.9-137	2.73	20	WG800243
1,1-Dichloropropene	mg/l	0.0244	0.0250	97.0	72.5-127	2.42	20	WG800243
1,2,3-Trichlorobenzene	mg/l	0.0225	0.0228	90.0	75.7-134	1.13	20	WG800243
1,2,3-Trichloropropane	mg/l	0.0233	0.0229	93.0	74.9-124	1.84	20	WG800243
1,2,3-Trimethylbenzene	mg/l	0.0264	0.0273	105.	79.9-118	3.46	20	WG800243
1,2,4-Trichlorobenzene	mg/l	0.0234	0.0238	94.0	76.1-136	1.84	20	WG800243
1,2,4-Trimethylbenzene	mg/l	0.0257	0.0256	103.	79-122	0.480	20	WG800243
1,2-Dibromo-3-Chloropropane	mg/l	0.0208	0.0196	83.0	64.8-131	5.87	20	WG800243
1,2-Dibromoethane	mg/l	0.0238	0.0233	95.0	79.8-122	2.26	20	WG800243
1,2-Dichlorobenzene	mg/l	0.0256	0.0260	102.	84.7-118	1.80	20	WG800243
1,2-Dichloroethane	mg/l	0.0263	0.0264	105.	65.3-126	0.410	20	WG800243
1,2-Dichloropropane	mg/l	0.0272	0.0273	109.	77.4-125	0.230	20	WG800243
1,3,5-Trimethylbenzene	mg/l	0.0263	0.0261	105.	81-123	0.800	20	WG800243
1,3-Dichlorobenzene	mg/l	0.0248	0.0243	99.0	77.6-127	1.94	20	WG800243
1,3-Dichloropropane	mg/l	0.0259	0.0257	103.	80.6-115	0.680	20	WG800243
1,4-Dichlorobenzene	mg/l	0.0254	0.0260	102.	82.2-114	2.57	20	WG800243
2,2-Dichloropropane	mg/l	0.0274	0.0265	110.	61.3-134	3.19	20	WG800243
2-Butanone (MEK)	mg/l	0.133	0.136	106.	46.4-155	2.44	20	WG800243
2-Chloroethyl vinyl ether	mg/l	0.124	0.120	99.0	23.4-162	3.40	23.5	WG800243
2-Chlorotoluene	mg/l	0.0261	0.0260	104.	76.4-125	0.590	20	WG800243
4-Chlorotoluene	mg/l	0.0265	0.0258	106.	81.5-121	2.53	20	WG800243
4-Methyl-2-pentanone (MIBK)	mg/l	0.132	0.129	105.	63.3-138	1.74	20	WG800243
Acetone	mg/l	0.119	0.125	95.0	28.7-175	5.22	20.9	WG800243
Acrolein	mg/l	0.0834	0.102	67.0	40.4-172	20.2*	20	WG800243
Acrylonitrile	mg/l	0.130	0.132	104.	58.2-145	1.09	20	WG800243
Benzene	mg/l	0.0277	0.0278	111.	73-122	0.680	20	WG800243
Bromobenzene	mg/l	0.0263	0.0259	105.	81.5-115	1.59	20	WG800243
Bromodichloromethane	mg/l	0.0244	0.0243	98.0	75.5-121	0.660	20	WG800243
Bromoform	mg/l	0.0212	0.0203	85.0	71.5-131	4.45	20	WG800243
Bromomethane	mg/l	0.0388	0.0401	155.	22.4-187	3.28	20	WG800243

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Golden, CO 80401

Quality Assurance Report
Level II

L772975

July 06, 2015

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Carbon tetrachloride	mg/l	0.0244	0.0249	98.0	70.9-129	2.17	20	WG800243
Chlorobenzene	mg/l	0.0266	0.0266	106.	79.7-122	0.200	20	WG800243
Chlorodibromomethane	mg/l	0.0233	0.0233	93.0	78.2-124	0.0700	20	WG800243
Chloroethane	mg/l	0.0352	0.0359	141.	41.2-153	1.89	20	WG800243
Chloroform	mg/l	0.0254	0.0258	102.	73.2-125	1.38	20	WG800243
Chloromethane	mg/l	0.0271	0.0274	108.	55.8-134	1.07	20	WG800243
cis-1,2-Dichloroethene	mg/l	0.0264	0.0263	106.	77.3-122	0.570	20	WG800243
cis-1,3-Dichloropropene	mg/l	0.0257	0.0258	103.	77.7-124	0.460	20	WG800243
Di-isopropyl ether	mg/l	0.0282	0.0289	113.	65.1-135	2.29	20	WG800243
Dibromomethane	mg/l	0.0240	0.0242	96.0	79.5-118	0.490	20	WG800243
Dichlorodifluoromethane	mg/l	0.0259	0.0267	104.	56-134	2.72	20	WG800243
Ethylbenzene	mg/l	0.0266	0.0268	106.	80.9-121	0.590	20	WG800243
Hexachloro-1,3-butadiene	mg/l	0.0219	0.0219	88.0	73.7-133	0.150	20	WG800243
Isopropylbenzene	mg/l	0.0267	0.0266	107.	81.6-124	0.430	20	WG800243
Methyl tert-butyl ether	mg/l	0.0255	0.0255	102.	70.1-125	0.0600	20	WG800243
Methylene Chloride	mg/l	0.0253	0.0252	101.	69.5-120	0.370	20	WG800243
n-Butylbenzene	mg/l	0.0283	0.0290	113.	75.9-134	2.65	20	WG800243
n-Propylbenzene	mg/l	0.0274	0.0272	110.	81.9-122	0.940	20	WG800243
Naphthalene	mg/l	0.0220	0.0222	88.0	69.7-134	1.16	20	WG800243
p-Isopropyltoluene	mg/l	0.0266	0.0265	106.	77.6-129	0.450	20	WG800243
sec-Butylbenzene	mg/l	0.0266	0.0265	106.	80.6-126	0.420	20	WG800243
Styrene	mg/l	0.0274	0.0271	109.	79.9-124	0.930	20	WG800243
tert-Butylbenzene	mg/l	0.0259	0.0256	104.	79.3-127	0.970	20	WG800243
Tetrachloroethene	mg/l	0.0247	0.0245	99.0	73.5-130	0.760	20	WG800243
Toluene	mg/l	0.0265	0.0271	106.	77.9-116	2.15	20	WG800243
trans-1,2-Dichloroethene	mg/l	0.0252	0.0258	101.	72.6-125	2.38	20	WG800243
trans-1,3-Dichloropropene	mg/l	0.0240	0.0234	96.0	73.5-127	2.67	20	WG800243
Trichloroethene	mg/l	0.0257	0.0257	103.	79.5-121	0.0300	20	WG800243
Trichlorofluoromethane	mg/l	0.0286	0.0291	114.	49.1-157	1.67	20	WG800243
Vinyl chloride	mg/l	0.0278	0.0286	111.	61.5-134	2.87	20	WG800243
Xylenes, Total	mg/l	0.0801	0.0792	107.	79.2-122	1.16	20	WG800243
4-Bromofluorobenzene				95.00	80.1-120			WG800243
Dibromofluoromethane				91.10	79-121			WG800243
Toluene-d8				102.0	90-115			WG800243

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1-Methylnaphthalene	mg/l	0.231	0.224	.002	340.*	68.3-144	L772975-06	WG798082
2-Chloronaphthalene	mg/l	0.00165	0.0	.002	82.0	69.7-140	L772975-06	WG798082
2-Methylnaphthalene	mg/l	0.0563	0.0544	.002	94.0	67.6-143	L772975-06	WG798082
Acenaphthene	mg/l	0.0728	0.0691	.002	180.*	67.7-141	L772975-06	WG798082
Acenaphthylene	mg/l	0.0741	0.0706	.002	170.*	66.9-141	L772975-06	WG798082
Anthracene	mg/l	0.0155	0.0131	.002	120.	68.9-153	L772975-06	WG798082
Benzo(a)anthracene	mg/l	0.00286	0.000971	.002	94.0	63.1-147	L772975-06	WG798082
Benzo(a)pyrene	mg/l	0.00255	0.000848	.002	85.0	62.2-150	L772975-06	WG798082
Benzo(b)fluoranthene	mg/l	0.00224	0.000643	.002	80.0	58.4-148	L772975-06	WG798082
Benzo(g,h,i)perylene	mg/l	0.00209	0.000545	.002	77.0	57.4-152	L772975-06	WG798082
Benzo(k)fluoranthene	mg/l	0.00162	0.000177	.002	72.0	60.5-154	L772975-06	WG798082
Chrysene	mg/l	0.00261	0.000988	.002	81.0	64.8-155	L772975-06	WG798082
Dibenz(a,h)anthracene	mg/l	0.00160	0.0000328	.002	79.0	53.5-153	L772975-06	WG798082
Fluoranthene	mg/l	0.00909	0.00709	.002	100.	68.6-153	L772975-06	WG798082
Fluorene	mg/l	0.0405	0.0379	.002	130.	67.3-141	L772975-06	WG798082
Indeno(1,2,3-cd)pyrene	mg/l	0.00194	0.000402	.002	77.0	57-155	L772975-06	WG798082
Naphthalene	mg/l	0.414	0.405	.002	480.*	66.7-135	L772975-06	WG798082
Phenanthrene	mg/l	0.0784	0.0720	.002	320.*	64.3-143	L772975-06	WG798082
Pyrene	mg/l	0.0132	0.0108	.002	120.	60.2-154	L772975-06	WG798082
2-Fluorobiphenyl					77.20	55.5-150		WG798082
Nitrobenzene-d5					89.80	33.8-179		WG798082

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
p-Terphenyl-d14					69.50	46.2-163		
1,1,1,2-Tetrachloroethane	mg/l	0.127	0.0	.025	100.	70.5-132	L772975-06	WG798187
1,1,1-Trichloroethane	mg/l	0.129	0.0	.025	100.	58.7-134	L772975-06	WG798187
1,1,2,2-Tetrachloroethane	mg/l	0.140	0.0	.025	110.	64.9-145	L772975-06	WG798187
1,1,2-Trichloroethane	mg/l	0.137	0.0	.025	110.	74.1-130	L772975-06	WG798187
1,1,2-Trichlorotrifluoroethane	mg/l	0.136	0.0	.025	110.	53.7-150	L772975-06	WG798187
1,1-Dichloroethane	mg/l	0.141	0.0	.025	110.	64-134	L772975-06	WG798187
1,1-Dichloroethene	mg/l	0.113	0.0	.025	90.0	48.8-144	L772975-06	WG798187
1,1-Dichloropropene	mg/l	0.134	0.0	.025	110.	61.5-136	L772975-06	WG798187
1,2,3-Trichlorobenzene	mg/l	0.125	0.0	.025	100.	65.7-143	L772975-06	WG798187
1,2,3-Trichloropropane	mg/l	0.123	0.0	.025	98.0	71.5-134	L772975-06	WG798187
1,2,3-Trimethylbenzene	mg/l	0.141	0.0126	.025	100.	62.7-133	L772975-06	WG798187
1,2,4-Trichlorobenzene	mg/l	0.126	0.0	.025	100.	67-146	L772975-06	WG798187
1,2,4-Trimethylbenzene	mg/l	0.160	0.0404	.025	96.0	60.5-137	L772975-06	WG798187
1,2-Dibromo-3-Chloropropane	mg/l	0.121	0.0	.025	96.0	63.9-142	L772975-06	WG798187
1,2-Dibromoethane	mg/l	0.134	0.0	.025	110.	73.8-131	L772975-06	WG798187
1,2-Dichlorobenzene	mg/l	0.130	0.0	.025	100.	77.4-127	L772975-06	WG798187
1,2-Dichloroethane	mg/l	0.128	0.0	.025	100.	60.7-132	L772975-06	WG798187
1,2-Dichloropropane	mg/l	0.137	0.0	.025	110.	69.7-130	L772975-06	WG798187
1,3,5-Trimethylbenzene	mg/l	0.140	0.0116	.025	100.	67.9-134	L772975-06	WG798187
1,3-Dichlorobenzene	mg/l	0.126	0.0	.025	100.	67.9-136	L772975-06	WG798187
1,3-Dichloropropane	mg/l	0.132	0.0	.025	100.	74.3-123	L772975-06	WG798187
1,4-Dichlorobenzene	mg/l	0.123	0.0	.025	99.0	74.4-123	L772975-06	WG798187
2,2-Dichloropropane	mg/l	0.135	0.0	.025	110.	54.9-142	L772975-06	WG798187
2-Butanone (MEK)	mg/l	0.533	0.0	.125	85.0	45-156	L772975-06	WG798187
2-Chloroethyl vinyl ether	mg/l	0.225	0.0	.125	36.0	5-149	L772975-06	WG798187
2-Chlorotoluene	mg/l	0.125	0.0	.025	100.	66.9-134	L772975-06	WG798187
4-Chlorotoluene	mg/l	0.131	0.0	.025	100.	66.8-134	L772975-06	WG798187
4-Methyl-2-pentanone (MIBK)	mg/l	0.668	0.0	.125	110.	60.7-150	L772975-06	WG798187
Acetone	mg/l	0.310	0.00417	.125	49.0	25-156	L772975-06	WG798187
Acrolein	mg/l	0.761	0.0	.125	120.	34-194	L772975-06	WG798187
Acrylonitrile	mg/l	0.676	0.0	.125	110.	55.9-161	L772975-06	WG798187
Benzene	mg/l	0.144	0.00128	.025	110.	58.6-133	L772975-06	WG798187
Bromobenzene	mg/l	0.133	0.0	.025	110.	70.6-125	L772975-06	WG798187
Bromodichloromethane	mg/l	0.131	0.0	.025	100.	69.2-127	L772975-06	WG798187
Bromoform	mg/l	0.120	0.0	.025	96.0	66.3-140	L772975-06	WG798187
Bromomethane	mg/l	0.117	0.0	.025	94.0	16.6-183	L772975-06	WG798187
Carbon tetrachloride	mg/l	0.131	0.0	.025	100.	60.6-139	L772975-06	WG798187
Chlorobenzene	mg/l	0.132	0.0	.025	110.	70.1-130	L772975-06	WG798187
Chlorodibromomethane	mg/l	0.128	0.0	.025	100.	71.6-132	L772975-06	WG798187
Chloroethane	mg/l	0.116	0.0	.025	93.0	33.3-155	L772975-06	WG798187
Chloroform	mg/l	0.140	0.0	.025	110.	66.1-133	L772975-06	WG798187
Chloromethane	mg/l	0.129	0.0	.025	100.	40.7-139	L772975-06	WG798187
cis-1,2-Dichloroethene	mg/l	0.152	0.0	.025	120.	60.6-136	L772975-06	WG798187
cis-1,3-Dichloropropene	mg/l	0.135	0.0	.025	110.	71.1-129	L772975-06	WG798187
Di-isopropyl ether	mg/l	0.137	0.0	.025	110.	59.9-140	L772975-06	WG798187
Dibromomethane	mg/l	0.137	0.0	.025	110.	72.8-127	L772975-06	WG798187
Dichlorodifluoromethane	mg/l	0.143	0.0	.025	110.	42.2-146	L772975-06	WG798187
Ethylbenzene	mg/l	0.156	0.0267	.025	100.	62.7-136	L772975-06	WG798187
Hexachloro-1,3-butadiene	mg/l	0.111	0.0	.025	89.0	61.1-144	L772975-06	WG798187
Isopropylbenzene	mg/l	0.135	0.00770	.025	100.	67.4-136	L772975-06	WG798187
Methyl tert-butyl ether	mg/l	0.136	0.0	.025	110.	61.4-136	L772975-06	WG798187
Methylene Chloride	mg/l	0.133	0.0	.025	110.	61.5-125	L772975-06	WG798187
n-Butylbenzene	mg/l	0.136	0.000961	.025	110.	64.8-145	L772975-06	WG798187
n-Propylbenzene	mg/l	0.136	0.00306	.025	110.	63.2-139	L772975-06	WG798187
Naphthalene	mg/l	0.918	0.780	.025	110.	61.8-143	L772975-06	WG798187
p-Isopropyltoluene	mg/l	0.137	0.000786	.025	110.	62.8-143	L772975-06	WG798187
sec-Butylbenzene	mg/l	0.133	0.000526	.025	110.	66.8-139	L772975-06	WG798187
Styrene	mg/l	0.144	0.0	.025	120.	68.2-133	L772975-06	WG798187

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
tert-Butylbenzene	mg/l	0.129	0.0	.025	100.	67.1-138	L772975-06	WG798187
Tetrachloroethene	mg/l	0.122	0.0	.025	98.0	57.4-141	L772975-06	WG798187
Toluene	mg/l	0.138	0.00237	.025	110.	67.8-124	L772975-06	WG798187
trans-1,2-Dichloroethene	mg/l	0.147	0.0	.025	120.	61-132	L772975-06	WG798187
trans-1,3-Dichloropropene	mg/l	0.132	0.0	.025	110.	66.3-136	L772975-06	WG798187
Trichloroethene	mg/l	0.133	0.0	.025	110.	48.9-148	L772975-06	WG798187
Trichlorofluoromethane	mg/l	0.119	0.0	.025	95.0	39.9-165	L772975-06	WG798187
Vinyl chloride	mg/l	0.122	0.0	.025	98.0	44.3-143	L772975-06	WG798187
Xylenes, Total	mg/l	0.415	0.0291	.075	100.	65.6-133	L772975-06	WG798187
4-Bromofluorobenzene					99.70	80.1-120		WG798187
Dibromofluoromethane					105.0	79-121		WG798187
Toluene-d8					103.0	90-115		WG798187
1,1,1,2-Tetrachloroethane	mg/l	0.0223	0.0	.025	89.0	70.5-132	L772975-08	WG800243
1,1,1-Trichloroethane	mg/l	0.0231	0.0	.025	92.0	58.7-134	L772975-08	WG800243
1,1,2,2-Tetrachloroethane	mg/l	0.0219	0.0	.025	88.0	64.9-145	L772975-08	WG800243
1,1,2-Trichloroethane	mg/l	0.0222	0.0	.025	89.0	74.1-130	L772975-08	WG800243
1,1,2-Trichlorotrifluoroethane	mg/l	0.0278	0.0	.025	110.	53.7-150	L772975-08	WG800243
1,1-Dichloroethane	mg/l	0.0255	0.0	.025	100.	64-134	L772975-08	WG800243
1,1-Dichloroethene	mg/l	0.0285	0.0	.025	110.	48.8-144	L772975-08	WG800243
1,1-Dichloropropene	mg/l	0.0236	0.0	.025	94.0	61.5-136	L772975-08	WG800243
1,2,3-Trichlorobenzene	mg/l	0.0194	0.0	.025	78.0	65.7-143	L772975-08	WG800243
1,2,3-Trichloropropane	mg/l	0.0214	0.0	.025	86.0	71.5-134	L772975-08	WG800243
1,2,3-Trimethylbenzene	mg/l	0.0254	0.00164	.025	95.0	62.7-133	L772975-08	WG800243
1,2,4-Trichlorobenzene	mg/l	0.0212	0.0	.025	85.0	67-146	L772975-08	WG800243
1,2,4-Trimethylbenzene	mg/l	0.0261	0.00249	.025	94.0	60.5-137	L772975-08	WG800243
1,2-Dibromo-3-Chloropropane	mg/l	0.0183	0.0	.025	73.0	63.9-142	L772975-08	WG800243
1,2-Dibromoethane	mg/l	0.0212	0.0	.025	85.0	73.8-131	L772975-08	WG800243
1,2-Dichlorobenzene	mg/l	0.0233	0.0	.025	93.0	77.4-127	L772975-08	WG800243
1,2-Dichloroethane	mg/l	0.0241	0.0	.025	96.0	60.7-132	L772975-08	WG800243
1,2-Dichloropropane	mg/l	0.0247	0.0	.025	99.0	69.7-130	L772975-08	WG800243
1,3,5-Trimethylbenzene	mg/l	0.0246	0.000655	.025	96.0	67.9-134	L772975-08	WG800243
1,3-Dichlorobenzene	mg/l	0.0229	0.0	.025	92.0	67.9-136	L772975-08	WG800243
1,3-Dichloropropane	mg/l	0.0233	0.0	.025	93.0	74.3-123	L772975-08	WG800243
1,4-Dichlorobenzene	mg/l	0.0235	0.0	.025	94.0	74.4-123	L772975-08	WG800243
2,2-Dichloropropane	mg/l	0.0268	0.0	.025	110.	54.9-142	L772975-08	WG800243
2-Butanone (MEK)	mg/l	0.0964	0.0	.125	77.0	45-156	L772975-08	WG800243
2-Chloroethyl vinyl ether	mg/l	0.0122	0.0	.125	9.70	5-149	L772975-08	WG800243
2-Chlorotoluene	mg/l	0.0244	0.0	.025	98.0	66.9-134	L772975-08	WG800243
4-Chlorotoluene	mg/l	0.0246	0.0	.025	98.0	66.8-134	L772975-08	WG800243
4-Methyl-2-pentanone (MIBK)	mg/l	0.116	0.0	.125	93.0	60.7-150	L772975-08	WG800243
Acetone	mg/l	0.0582	0.00189	.125	45.0	25-156	L772975-08	WG800243
Acrolein	mg/l	0.108	0.0	.125	86.0	34-194	L772975-08	WG800243
Acrylonitrile	mg/l	0.120	0.0	.125	96.0	55.9-161	L772975-08	WG800243
Benzene	mg/l	0.0322	0.00647	.025	100.	58.6-133	L772975-08	WG800243
Bromobenzene	mg/l	0.0237	0.0	.025	95.0	70.6-125	L772975-08	WG800243
Bromodichloromethane	mg/l	0.0217	0.0	.025	87.0	69.2-127	L772975-08	WG800243
Bromoform	mg/l	0.0188	0.0	.025	75.0	66.3-140	L772975-08	WG800243
Bromomethane	mg/l	0.0376	0.0	.025	150.	16.6-183	L772975-08	WG800243
Carbon tetrachloride	mg/l	0.0237	0.0	.025	95.0	60.6-139	L772975-08	WG800243
Chlorobenzene	mg/l	0.0246	0.0	.025	98.0	70.1-130	L772975-08	WG800243
Chlorodibromomethane	mg/l	0.0212	0.0	.025	85.0	71.6-132	L772975-08	WG800243
Chloroethane	mg/l	0.0353	0.0	.025	140.	33.3-155	L772975-08	WG800243
Chloroform	mg/l	0.0238	0.0	.025	95.0	66.1-133	L772975-08	WG800243
Chloromethane	mg/l	0.0263	0.0	.025	100.	40.7-139	L772975-08	WG800243
cis-1,2-Dichloroethene	mg/l	0.0251	0.0	.025	100.	60.6-136	L772975-08	WG800243
cis-1,3-Dichloropropene	mg/l	0.0232	0.0	.025	93.0	71.1-129	L772975-08	WG800243
Di-isopropyl ether	mg/l	0.0256	0.0	.025	100.	59.9-140	L772975-08	WG800243

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Quality Assurance Report
Level II

L772975

July 06, 2015

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Dibromomethane	mg/l	0.0219	0.0	.025	88.0	72.8-127	L772975-08	WG800243
Dichlorodifluoromethane	mg/l	0.0283	0.0	.025	110.	42.2-146	L772975-08	WG800243
Ethylbenzene	mg/l	0.0264	0.00169	.025	99.0	62.7-136	L772975-08	WG800243
Hexachloro-1,3-butadiene	mg/l	0.0198	0.0	.025	79.0	61.1-144	L772975-08	WG800243
Isopropylbenzene	mg/l	0.0255	0.000696	.025	99.0	67.4-136	L772975-08	WG800243
Methyl tert-butyl ether	mg/l	0.0224	0.0	.025	89.0	61.4-136	L772975-08	WG800243
Methylene Chloride	mg/l	0.0231	0.0	.025	92.0	61.5-125	L772975-08	WG800243
n-Butylbenzene	mg/l	0.0264	0.0	.025	110.	64.8-145	L772975-08	WG800243
n-Propylbenzene	mg/l	0.0260	0.0	.025	100.	63.2-139	L772975-08	WG800243
Naphthalene	mg/l	0.0454	0.0297	.025	63.0	61.8-143	L772975-08	WG800243
p-Isopropyltoluene	mg/l	0.0247	0.0	.025	99.0	62.8-143	L772975-08	WG800243
sec-Butylbenzene	mg/l	0.0245	0.0	.025	98.0	66.8-139	L772975-08	WG800243
Styrene	mg/l	0.0252	0.0	.025	100.	68.2-133	L772975-08	WG800243
tert-Butylbenzene	mg/l	0.0237	0.0	.025	95.0	67.1-138	L772975-08	WG800243
Tetrachloroethene	mg/l	0.0235	0.0	.025	94.0	57.4-141	L772975-08	WG800243
Toluene	mg/l	0.0254	0.000622	.025	99.0	67.8-124	L772975-08	WG800243
trans-1,2-Dichloroethene	mg/l	0.0242	0.0	.025	97.0	61-132	L772975-08	WG800243
trans-1,3-Dichloropropene	mg/l	0.0213	0.0	.025	85.0	66.3-136	L772975-08	WG800243
Trichloroethene	mg/l	0.0238	0.0	.025	95.0	48.9-148	L772975-08	WG800243
Trichlorofluoromethane	mg/l	0.0294	0.0	.025	120.	39.9-165	L772975-08	WG800243
Vinyl chloride	mg/l	0.0281	0.0	.025	110.	44.3-143	L772975-08	WG800243
Xylenes, Total	mg/l	0.0798	0.00571	.075	99.0	65.6-133	L772975-08	WG800243
4-Bromofluorobenzene					95.10	80.1-120		WG800243
Dibromofluoromethane					92.10	79-121		WG800243
Toluene-d8					102.0	90-115		WG800243

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1-Methylnaphthalene	mg/l	0.214	0.231	0*	68.3-144	7.72	20	L772975-06	WG798082
2-Chloronaphthalene	mg/l	0.00166	0.00165	83.1	69.7-140	0.770	20	L772975-06	WG798082
2-Methylnaphthalene	mg/l	0.0467	0.0563	0*	67.6-143	18.5	20	L772975-06	WG798082
Acenaphthene	mg/l	0.0718	0.0728	134.	67.7-141	1.41	20	L772975-06	WG798082
Acenaphthylene	mg/l	0.0705	0.0741	0*	66.9-141	4.94	20	L772975-06	WG798082
Anthracene	mg/l	0.0162	0.0155	153.	68.9-153	4.31	20	L772975-06	WG798082
Benzo(a)anthracene	mg/l	0.00296	0.00286	99.4	63.1-147	3.44	20	L772975-06	WG798082
Benzo(a)pyrene	mg/l	0.00252	0.00255	83.8	62.2-150	0.940	20	L772975-06	WG798082
Benzo(b)fluoranthene	mg/l	0.00205	0.00224	70.2	58.4-148	9.18	20	L772975-06	WG798082
Benzo(g,h,i)perylene	mg/l	0.00203	0.00209	74.1	57.4-152	2.84	20	L772975-06	WG798082
Benzo(k)fluoranthene	mg/l	0.00183	0.00162	82.7	60.5-154	11.9	20	L772975-06	WG798082
Chrysene	mg/l	0.00268	0.00261	84.5	64.8-155	2.54	20	L772975-06	WG798082
Dibenz(a,h)anthracene	mg/l	0.00154	0.00160	75.3	53.5-153	4.19	20	L772975-06	WG798082
Fluoranthene	mg/l	0.00977	0.00909	134.	68.6-153	7.21	20	L772975-06	WG798082
Fluorene	mg/l	0.0401	0.0405	111.	67.3-141	0.900	20	L772975-06	WG798082
Indeno(1,2,3-cd)pyrene	mg/l	0.00187	0.00194	73.1	57-155	3.91	20	L772975-06	WG798082
Naphthalene	mg/l	0.310	0.414	0*	66.7-135	28.7*	20	L772975-06	WG798082
Phenanthrene	mg/l	0.0705	0.0784	0*	64.3-143	10.7	20	L772975-06	WG798082
Pyrene	mg/l	0.0143	0.0132	174.*	60.2-154	7.41	20	L772975-06	WG798082
2-Fluorobiphenyl				77.80	55.5-150				WG798082
Nitrobenzene-d5				91.60	33.8-179				WG798082
p-Terphenyl-d14				66.50	46.2-163				WG798082
1,1,1,2-Tetrachloroethane	mg/l	0.131	0.127	104.	70.5-132	3.17	20	L772975-06	WG798187
1,1,1-Trichloroethane	mg/l	0.130	0.129	104.	58.7-134	0.650	20	L772975-06	WG798187
1,1,2,2-Tetrachloroethane	mg/l	0.149	0.140	119.	64.9-145	6.32	20	L772975-06	WG798187
1,1,2-Trichloroethane	mg/l	0.142	0.137	114.	74.1-130	3.53	20	L772975-06	WG798187
1,1,2-Trichlorotrifluoroethane	mg/l	0.135	0.136	108.	53.7-150	0.850	20	L772975-06	WG798187
1,1-Dichloroethane	mg/l	0.142	0.141	114.	64-134	1.17	20	L772975-06	WG798187

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July 06, 2015

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1-Dichloroethene	mg/l	0.113	0.113	90.6	48.8-144	0.0700	20	L772975-06	WG798187
1,1-Dichloropropene	mg/l	0.131	0.134	105.	61.5-136	1.99	20	L772975-06	WG798187
1,2,3-Trichlorobenzene	mg/l	0.136	0.125	109.	65.7-143	8.29	20	L772975-06	WG798187
1,2,3-Trichloropropane	mg/l	0.135	0.123	108.	71.5-134	8.92	20	L772975-06	WG798187
1,2,3-Trimethylbenzene	mg/l	0.146	0.141	107.	62.7-133	3.66	20	L772975-06	WG798187
1,2,4-Trichlorobenzene	mg/l	0.130	0.126	104.	67-146	3.18	20	L772975-06	WG798187
1,2,4-Trimethylbenzene	mg/l	0.173	0.160	106.	60.5-137	7.83	20	L772975-06	WG798187
1,2-Dibromo-3-Chloropropane	mg/l	0.129	0.121	103.	63.9-142	6.43	20.2	L772975-06	WG798187
1,2-Dibromoethane	mg/l	0.139	0.134	111.	73.8-131	3.54	20	L772975-06	WG798187
1,2-Dichlorobenzene	mg/l	0.133	0.130	107.	77.4-127	2.66	20	L772975-06	WG798187
1,2-Dichloroethane	mg/l	0.133	0.128	106.	60.7-132	4.25	20	L772975-06	WG798187
1,2-Dichloropropane	mg/l	0.141	0.137	112.	69.7-130	2.89	20	L772975-06	WG798187
1,3,5-Trimethylbenzene	mg/l	0.146	0.140	107.	67.9-134	3.94	20	L772975-06	WG798187
1,3-Dichlorobenzene	mg/l	0.131	0.126	105.	67.9-136	3.89	20	L772975-06	WG798187
1,3-Dichloropropane	mg/l	0.134	0.132	107.	74.3-123	1.59	20	L772975-06	WG798187
1,4-Dichlorobenzene	mg/l	0.127	0.123	102.	74.4-123	3.16	20	L772975-06	WG798187
2,2-Dichloropropane	mg/l	0.126	0.135	101.	54.9-142	6.82	20	L772975-06	WG798187
2-Butanone (MEK)	mg/l	0.548	0.533	87.7	45-156	2.74	20.8	L772975-06	WG798187
2-Chloroethyl vinyl ether	mg/l	0.202	0.225	32.4	5-149	10.5	40	L772975-06	WG798187
2-Chlorotoluene	mg/l	0.136	0.125	109.	66.9-134	8.52	20	L772975-06	WG798187
4-Chlorotoluene	mg/l	0.139	0.131	111.	66.8-134	5.60	20	L772975-06	WG798187
4-Methyl-2-pentanone (MIBK)	mg/l	0.685	0.668	110.	60.7-150	2.38	20	L772975-06	WG798187
Acetone	mg/l	0.321	0.310	50.6	25-156	3.34	21.5	L772975-06	WG798187
Acrolein	mg/l	0.800	0.761	128.	34-194	5.07	21.5	L772975-06	WG798187
Acrylonitrile	mg/l	0.679	0.676	109.	55.9-161	0.480	20	L772975-06	WG798187
Benzene	mg/l	0.143	0.144	113.	58.6-133	0.420	20	L772975-06	WG798187
Bromobenzene	mg/l	0.136	0.133	109.	70.6-125	2.50	20	L772975-06	WG798187
Bromodichloromethane	mg/l	0.134	0.131	107.	69.2-127	2.62	20	L772975-06	WG798187
Bromoform	mg/l	0.126	0.120	101.	66.3-140	5.54	20	L772975-06	WG798187
Bromomethane	mg/l	0.117	0.117	93.6	16.6-183	0.0600	20.5	L772975-06	WG798187
Carbon tetrachloride	mg/l	0.132	0.131	106.	60.6-139	0.640	20	L772975-06	WG798187
Chlorobenzene	mg/l	0.137	0.132	110.	70.1-130	3.71	20	L772975-06	WG798187
Chlorodibromomethane	mg/l	0.135	0.128	108.	71.6-132	5.60	20	L772975-06	WG798187
Chloroethane	mg/l	0.112	0.116	89.7	33.3-155	3.12	20	L772975-06	WG798187
Chloroform	mg/l	0.138	0.140	110.	66.1-133	1.43	20	L772975-06	WG798187
Chloromethane	mg/l	0.126	0.129	101.	40.7-139	1.78	20	L772975-06	WG798187
cis-1,2-Dichloroethene	mg/l	0.149	0.152	119.	60.6-136	1.71	20	L772975-06	WG798187
cis-1,3-Dichloropropene	mg/l	0.137	0.135	110.	71.1-129	1.62	20	L772975-06	WG798187
Di-isopropyl ether	mg/l	0.136	0.137	109.	59.9-140	0.650	20	L772975-06	WG798187
Dibromomethane	mg/l	0.141	0.137	113.	72.8-127	2.98	20	L772975-06	WG798187
Dichlorodifluoromethane	mg/l	0.137	0.143	110.	42.2-146	4.20	20	L772975-06	WG798187
Ethylbenzene	mg/l	0.164	0.156	110.	62.7-136	5.07	20	L772975-06	WG798187
Hexachloro-1,3-butadiene	mg/l	0.115	0.111	92.3	61.1-144	3.87	20.1	L772975-06	WG798187
Isopropylbenzene	mg/l	0.145	0.135	110.	67.4-136	6.97	20	L772975-06	WG798187
Methyl tert-butyl ether	mg/l	0.137	0.136	110.	61.4-136	0.960	20	L772975-06	WG798187
Methylene Chloride	mg/l	0.137	0.133	110.	61.5-125	3.39	20	L772975-06	WG798187
n-Butylbenzene	mg/l	0.144	0.136	115.	64.8-145	6.13	20	L772975-06	WG798187
n-Propylbenzene	mg/l	0.139	0.136	109.	63.2-139	2.40	20	L772975-06	WG798187
Naphthalene	mg/l	0.943	0.918	130.	61.8-143	2.74	20	L772975-06	WG798187
p-Isopropyltoluene	mg/l	0.138	0.137	110.	62.8-143	0.830	20	L772975-06	WG798187
sec-Butylbenzene	mg/l	0.135	0.133	108.	66.8-139	1.52	20	L772975-06	WG798187
Styrene	mg/l	0.149	0.144	119.	68.2-133	3.29	20	L772975-06	WG798187
tert-Butylbenzene	mg/l	0.133	0.129	106.	67.1-138	2.95	20	L772975-06	WG798187
Tetrachloroethene	mg/l	0.129	0.122	103.	57.4-141	5.81	20	L772975-06	WG798187
Toluene	mg/l	0.142	0.138	112.	67.8-124	3.10	20	L772975-06	WG798187
trans-1,2-Dichloroethene	mg/l	0.148	0.147	119.	61-132	1.14	20	L772975-06	WG798187
trans-1,3-Dichloropropene	mg/l	0.135	0.132	108.	66.3-136	2.16	20	L772975-06	WG798187
Trichloroethene	mg/l	0.135	0.133	108.	48.9-148	1.94	20	L772975-06	WG798187
Trichlorofluoromethane	mg/l	0.115	0.119	91.9	39.9-165	3.19	20	L772975-06	WG798187

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Vinyl chloride	mg/l	0.124	0.122	99.1	44.3-143	1.47	20	L772975-06	WG798187
Xylenes, Total	mg/l	0.444	0.415	111.	65.6-133	6.88	20	L772975-06	WG798187
4-Bromofluorobenzene				105.0	80.1-120				WG798187
Dibromofluoromethane				104.0	79-121				WG798187
Toluene-d8				103.0	90-115				WG798187
1,1,1,2-Tetrachloroethane	mg/l	0.0205	0.0223	81.9	70.5-132	8.48	20	L772975-08	WG800243
1,1,1-Trichloroethane	mg/l	0.0212	0.0231	85.0	58.7-134	8.36	20	L772975-08	WG800243
1,1,2,2-Tetrachloroethane	mg/l	0.0196	0.0219	78.2	64.9-145	11.4	20	L772975-08	WG800243
1,1,2-Trichloroethane	mg/l	0.0202	0.0222	80.9	74.1-130	9.20	20	L772975-08	WG800243
1,1,2-Trichlorotrifluoroethane	mg/l	0.0251	0.0278	100.	53.7-150	10.1	20	L772975-08	WG800243
1,1-Dichloroethane	mg/l	0.0233	0.0255	93.1	64-134	9.02	20	L772975-08	WG800243
1,1-Dichloroethene	mg/l	0.0260	0.0285	104.	48.8-144	9.38	20	L772975-08	WG800243
1,1-Dichloropropene	mg/l	0.0218	0.0236	87.4	61.5-136	7.81	20	L772975-08	WG800243
1,2,3-Trichlorobenzene	mg/l	0.0187	0.0194	74.6	65.7-143	4.11	20	L772975-08	WG800243
1,2,3-Trichloropropane	mg/l	0.0194	0.0214	77.7	71.5-134	9.69	20	L772975-08	WG800243
1,2,3-Trimethylbenzene	mg/l	0.0231	0.0254	85.9	62.7-133	9.44	20	L772975-08	WG800243
1,2,4-Trichlorobenzene	mg/l	0.0199	0.0212	79.5	67-146	6.50	20	L772975-08	WG800243
1,2,4-Trimethylbenzene	mg/l	0.0237	0.0261	84.9	60.5-137	9.63	20	L772975-08	WG800243
1,2-Dibromo-3-Chloropropane	mg/l	0.0166	0.0183	66.5	63.9-142	9.42	20.2	L772975-08	WG800243
1,2-Dibromoethane	mg/l	0.0193	0.0212	77.4	73.8-131	9.20	20	L772975-08	WG800243
1,2-Dichlorobenzene	mg/l	0.0209	0.0233	83.7	77.4-127	10.7	20	L772975-08	WG800243
1,2-Dichloroethane	mg/l	0.0219	0.0241	87.6	60.7-132	9.76	20	L772975-08	WG800243
1,2-Dichloropropane	mg/l	0.0227	0.0247	91.0	69.7-130	8.35	20	L772975-08	WG800243
1,3,5-Trimethylbenzene	mg/l	0.0225	0.0246	87.5	67.9-134	8.91	20	L772975-08	WG800243
1,3-Dichlorobenzene	mg/l	0.0208	0.0229	83.2	67.9-136	9.52	20	L772975-08	WG800243
1,3-Dichloropropane	mg/l	0.0207	0.0233	82.7	74.3-123	12.0	20	L772975-08	WG800243
1,4-Dichlorobenzene	mg/l	0.0210	0.0235	83.9	74.4-123	11.3	20	L772975-08	WG800243
2,2-Dichloropropane	mg/l	0.0239	0.0268	95.7	54.9-142	11.3	20	L772975-08	WG800243
2-Butanone (MEK)	mg/l	0.0908	0.0964	72.6	45-156	6.03	20.8	L772975-08	WG800243
2-Chloroethyl vinyl ether	mg/l	0.00467	0.0122	3.74*	5-149	89.1*	40	L772975-08	WG800243
2-Chlorotoluene	mg/l	0.0221	0.0244	88.2	66.9-134	10.1	20	L772975-08	WG800243
4-Chlorotoluene	mg/l	0.0219	0.0246	87.6	66.8-134	11.6	20	L772975-08	WG800243
4-Methyl-2-pentanone (MIBK)	mg/l	0.107	0.116	85.6	60.7-150	8.20	20	L772975-08	WG800243
Acetone	mg/l	0.0588	0.0582	45.5	25-156	1.04	21.5	L772975-08	WG800243
Acrolein	mg/l	0.0981	0.108	78.5	34-194	9.11	21.5	L772975-08	WG800243
Acrylonitrile	mg/l	0.112	0.120	89.5	55.9-161	6.98	20	L772975-08	WG800243
Benzene	mg/l	0.0296	0.0322	92.6	58.6-133	8.20	20	L772975-08	WG800243
Bromobenzene	mg/l	0.0215	0.0237	86.0	70.6-125	9.59	20	L772975-08	WG800243
Bromodichloromethane	mg/l	0.0203	0.0217	81.4	69.2-127	6.58	20	L772975-08	WG800243
Bromoform	mg/l	0.0166	0.0188	66.4	66.3-140	12.2	20	L772975-08	WG800243
Bromomethane	mg/l	0.0341	0.0376	136.	16.6-183	9.77	20.5	L772975-08	WG800243
Carbon tetrachloride	mg/l	0.0216	0.0237	86.5	60.6-139	8.94	20	L772975-08	WG800243
Chlorobenzene	mg/l	0.0222	0.0246	88.9	70.1-130	9.97	20	L772975-08	WG800243
Chlorodibromomethane	mg/l	0.0191	0.0212	76.5	71.6-132	10.4	20	L772975-08	WG800243
Chloroethane	mg/l	0.0315	0.0353	126.	33.3-155	11.4	20	L772975-08	WG800243
Chloroform	mg/l	0.0217	0.0238	86.7	66.1-133	9.54	20	L772975-08	WG800243
Chloromethane	mg/l	0.0237	0.0263	94.8	40.7-139	10.3	20	L772975-08	WG800243
cis-1,2-Dichloroethene	mg/l	0.0224	0.0251	89.5	60.6-136	11.5	20	L772975-08	WG800243
cis-1,3-Dichloropropene	mg/l	0.0212	0.0232	84.7	71.1-129	9.01	20	L772975-08	WG800243
Di-isopropyl ether	mg/l	0.0237	0.0256	94.7	59.9-140	7.97	20	L772975-08	WG800243
Dibromomethane	mg/l	0.0198	0.0219	79.3	72.8-127	9.81	20	L772975-08	WG800243
Dichlorodifluoromethane	mg/l	0.0249	0.0283	99.5	42.2-146	13.0	20	L772975-08	WG800243
Ethylbenzene	mg/l	0.0242	0.0264	90.1	62.7-136	8.69	20	L772975-08	WG800243
Hexachloro-1,3-butadiene	mg/l	0.0185	0.0198	74.0	61.1-144	6.81	20.1	L772975-08	WG800243
Isopropylbenzene	mg/l	0.0232	0.0255	89.9	67.4-136	9.65	20	L772975-08	WG800243
Methyl tert-butyl ether	mg/l	0.0207	0.0224	83.0	61.4-136	7.52	20	L772975-08	WG800243
Methylene Chloride	mg/l	0.0212	0.0231	84.9	61.5-125	8.30	20	L772975-08	WG800243

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

12065 Lebanon Rd.
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USA Environment, LP
Craig Lugowski
17301 W. Colfax Avenue, Suite 152

Golden, CO 80401

Quality Assurance Report
Level II

L772975

July 06, 2015

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
n-Butylbenzene	mg/l	0.0242	0.0264	96.6	64.8-145	9.05	20	L772975-08	WG800243
n-Propylbenzene	mg/l	0.0236	0.0260	94.3	63.2-139	9.65	20	L772975-08	WG800243
Naphthalene	mg/l	0.0437	0.0454	55.8*	61.8-143	4.00	20	L772975-08	WG800243
p-Isopropyltoluene	mg/l	0.0229	0.0247	91.7	62.8-143	7.54	20	L772975-08	WG800243
sec-Butylbenzene	mg/l	0.0224	0.0245	89.7	66.8-139	8.92	20	L772975-08	WG800243
Styrene	mg/l	0.0226	0.0252	90.4	68.2-133	11.0	20	L772975-08	WG800243
tert-Butylbenzene	mg/l	0.0217	0.0237	86.9	67.1-138	8.85	20	L772975-08	WG800243
Tetrachloroethene	mg/l	0.0209	0.0235	83.4	57.4-141	12.1	20	L772975-08	WG800243
Toluene	mg/l	0.0234	0.0254	91.3	67.8-124	7.91	20	L772975-08	WG800243
trans-1,2-Dichloroethene	mg/l	0.0222	0.0242	88.7	61-132	8.69	20	L772975-08	WG800243
trans-1,3-Dichloropropene	mg/l	0.0196	0.0213	78.5	66.3-136	8.02	20	L772975-08	WG800243
Trichloroethene	mg/l	0.0222	0.0238	88.7	48.9-148	6.85	20	L772975-08	WG800243
Trichlorofluoromethane	mg/l	0.0270	0.0294	108.	39.9-165	8.33	20	L772975-08	WG800243
Vinyl chloride	mg/l	0.0257	0.0281	103.	44.3-143	9.08	20	L772975-08	WG800243
Xylenes, Total	mg/l	0.0728	0.0798	89.4	65.6-133	9.22	20	L772975-08	WG800243
4-Bromofluorobenzene				93.90	80.1-120				WG800243
Dibromofluoromethane				93.50	79-121				WG800243
Toluene-d8				103.0	90-115				WG800243

Batch number /Run number / Sample number cross reference

WG798082: R3045705 R3045937 R3046374 R3046472: L772975-01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16
WG798187: R3047499: L772975-01 02 03 04 05 06 07 09 10 12 13 15
WG800243: R3047683: L772975-08 11 14 16

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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USA Environment, LP
Craig Lugowski
17301 W. Colfax Avenue, Suite 152

Golden, CO 80401

Quality Assurance Report
Level II

L772975

July 06, 2015

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

ANALYTICAL REPORT

September 14, 2015

USA Environment, LP

Sample Delivery Group:	L786630
Samples Received:	09/02/2015
Project Number:	5047-RC-C100
Description:	
Report To:	Mr. Craig Lugowski 17301 W. Colfax Avenue, Suite 152 Golden, CO 80401

Entire Report Reviewed By:

Darren Reeder
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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COB-MW1-090115 L786630-01 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 09:20 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	1	09/08/15 09:48	09/09/15 01:44	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 19:31	09/06/15 19:31	MCB

COB-MW2-090115 L786630-02 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 11:15 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	1	09/08/15 09:48	09/09/15 02:06	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 19:51	09/06/15 19:51	MCB

COB-MW3R-090115 L786630-03 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 13:55 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	20	09/08/15 09:48	09/10/15 02:31	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 20:11	09/06/15 20:11	MCB

COB-MW4-090115 L786630-04 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 14:50 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	1	09/08/15 09:48	09/09/15 02:49	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 20:31	09/06/15 20:31	MCB

COB-MW5-090115 L786630-05 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 09:50 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	1	09/08/15 09:48	09/09/15 03:11	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 20:51	09/06/15 20:51	MCB

COB-MW6-090115 L786630-06 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 12:40 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	1	09/08/15 09:48	09/09/15 03:33	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 21:11	09/06/15 21:11	MCB

COB-MW7-090115 L786630-07 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 12:10 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	1	09/08/15 09:48	09/09/15 03:55	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	20	09/08/15 09:48	09/10/15 02:52	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 18:51	09/06/15 18:51	MCB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG814856	5	09/12/15 14:10	09/12/15 14:10	KLO

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

COB-MW8R-090115 L786630-08 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 14:55 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	1	09/08/15 09:48	09/09/15 05:00	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 21:31	09/06/15 21:31	MCB

COB-MW10-090115 L786630-09 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 13:35 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	1	09/08/15 09:48	09/09/15 05:22	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	20	09/08/15 09:48	09/10/15 03:14	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	50	09/08/15 09:48	09/14/15 10:17	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG814521	5	09/10/15 22:58	09/10/15 22:58	MCB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG814856	100	09/12/15 14:29	09/12/15 14:29	KLO

COB-MW11-090115 L786630-10 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 10:20 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	1	09/08/15 09:48	09/09/15 05:44	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 22:10	09/06/15 22:10	MCB

COB-MW12-090115 L786630-11 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 15:05 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	1	09/08/15 09:48	09/09/15 06:06	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 22:30	09/06/15 22:30	MCB

COB-MW13-090115 L786630-12 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 10:40 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	2	09/08/15 09:48	09/09/15 06:28	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 22:50	09/06/15 22:50	MCB

COB-MW14-090115 L786630-13 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 09:35 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	1	09/08/15 09:48	09/09/15 06:49	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 23:10	09/06/15 23:10	MCB

COB-MW15-090115 L786630-14 GW

Collected by: Andrew Stone | Collected date/time: 09/01/15 11:45 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	5	09/08/15 09:48	09/09/15 10:50	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG814521	5	09/10/15 23:18	09/10/15 23:18	MCB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG814856	5	09/12/15 14:49	09/12/15 14:49	KLO

COB-MW16-090115 L786630-15 GW

Collected by: Andrew Stone
Collected date/time: 09/01/15 14:10
Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	1	09/08/15 09:48	09/09/15 07:11	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	20	09/08/15 09:48	09/10/15 03:57	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 23:50	09/06/15 23:50	MCB

COB-FIELD DUP-090115 L786630-16 GW

Collected by: Andrew Stone
Collected date/time: 09/01/15 00:00
Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	1	09/08/15 09:48	09/09/15 07:33	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG813411	100	09/08/15 09:48	09/14/15 11:00	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG814521	5	09/10/15 23:39	09/10/15 23:39	MCB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG814856	100	09/12/15 15:09	09/12/15 15:09	KLO

TRIP BLANK L786630-17 GW

Collected by: Andrew Stone
Collected date/time: 09/01/15 00:00
Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813640	1	09/06/15 18:31	09/06/15 18:31	MCB

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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 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.

Darren Reeder
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	09/06/2015 19:31	WG813640
Acrolein	U		0.00887	0.0500	1	09/06/2015 19:31	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 19:31	WG813640
Benzene	U		0.000331	0.00100	1	09/06/2015 19:31	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 19:31	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 19:31	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 19:31	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 19:31	WG813640
n-Butylbenzene	U		0.000361	0.00100	1	09/06/2015 19:31	WG813640
sec-Butylbenzene	U		0.000365	0.00100	1	09/06/2015 19:31	WG813640
tert-Butylbenzene	U		0.000399	0.00100	1	09/06/2015 19:31	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 19:31	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 19:31	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 19:31	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 19:31	WG813640
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	09/06/2015 19:31	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 19:31	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 19:31	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 19:31	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 19:31	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 19:31	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 19:31	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 19:31	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 19:31	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 19:31	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 19:31	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 19:31	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 19:31	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 19:31	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 19:31	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 19:31	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 19:31	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 19:31	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 19:31	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 19:31	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 19:31	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 19:31	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 19:31	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 19:31	WG813640
Ethylbenzene	U		0.000384	0.00100	1	09/06/2015 19:31	WG813640
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	09/06/2015 19:31	WG813640
Isopropylbenzene	U		0.000326	0.00100	1	09/06/2015 19:31	WG813640
p-Isopropyltoluene	U		0.000350	0.00100	1	09/06/2015 19:31	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 19:31	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 19:31	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 19:31	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 19:31	WG813640
Naphthalene	0.00172	J	0.00100	0.00500	1	09/06/2015 19:31	WG813640
n-Propylbenzene	U		0.000349	0.00100	1	09/06/2015 19:31	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 19:31	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 19:31	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 19:31	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 19:31	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 19:31	WG813640
Toluene	U		0.000780	0.00500	1	09/06/2015 19:31	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 19:31	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 19:31	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 19:31	WG813640
1,1,2-Trichloroethane	U		0.000383	0.00100	1	09/06/2015 19:31	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 19:31	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 19:31	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 19:31	WG813640
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	09/06/2015 19:31	WG813640
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	09/06/2015 19:31	WG813640
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	09/06/2015 19:31	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 19:31	WG813640
Xylenes, Total	U		0.00106	0.00300	1	09/06/2015 19:31	WG813640
(S) Toluene-d8	*104*			*90.0-115*		*09/06/2015 19:31*	WG813640
(S) Dibromofluoromethane	*110*			*79.0-121*		*09/06/2015 19:31*	WG813640
(S) 4-Bromofluorobenzene	*98.3*			*80.1-120*		*09/06/2015 19:31*	WG813640

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000140	0.0000500	1	09/09/2015 01:44	WG813411
Acenaphthene	U		0.0000100	0.0000500	1	09/09/2015 01:44	WG813411
Acenaphthylene	U		0.0000120	0.0000500	1	09/09/2015 01:44	WG813411
Benzo(a)anthracene	0.0000134	J	0.00000410	0.0000500	1	09/09/2015 01:44	WG813411
Benzo(a)pyrene	U		0.0000116	0.0000500	1	09/09/2015 01:44	WG813411
Benzo(b)fluoranthene	0.00000669	J	0.00000212	0.0000500	1	09/09/2015 01:44	WG813411
Benzo(g,h,i)perylene	0.00000546	J	0.00000227	0.0000500	1	09/09/2015 01:44	WG813411
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	09/09/2015 01:44	WG813411
Chrysene	U		0.0000108	0.0000500	1	09/09/2015 01:44	WG813411
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	09/09/2015 01:44	WG813411
Fluoranthene	U		0.0000157	0.0000500	1	09/09/2015 01:44	WG813411
Fluorene	U		0.00000850	0.0000500	1	09/09/2015 01:44	WG813411
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	09/09/2015 01:44	WG813411
Naphthalene	U		0.0000198	0.000250	1	09/09/2015 01:44	WG813411
Phenanthrene	0.0000175	J	0.00000820	0.0000500	1	09/09/2015 01:44	WG813411
Pyrene	0.0000161	J	0.0000117	0.0000500	1	09/09/2015 01:44	WG813411
1-Methylnaphthalene	U		0.00000821	0.000250	1	09/09/2015 01:44	WG813411
2-Methylnaphthalene	U		0.00000902	0.000250	1	09/09/2015 01:44	WG813411
2-Chloronaphthalene	U		0.00000647	0.000250	1	09/09/2015 01:44	WG813411
(S) Nitrobenzene-d5	*127*			*33.8-179*		*09/09/2015 01:44*	WG813411
(S) 2-Fluorobiphenyl	*105*			*55.5-150*		*09/09/2015 01:44*	WG813411
(S) p-Terphenyl-d14	*95.9*			*46.2-163*		*09/09/2015 01:44*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	09/06/2015 19:51	WG813640
Acrolein	U		0.00887	0.0500	1	09/06/2015 19:51	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 19:51	WG813640
Benzene	U		0.000331	0.00100	1	09/06/2015 19:51	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 19:51	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 19:51	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 19:51	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 19:51	WG813640
n-Butylbenzene	U		0.000361	0.00100	1	09/06/2015 19:51	WG813640
sec-Butylbenzene	U		0.000365	0.00100	1	09/06/2015 19:51	WG813640
tert-Butylbenzene	U		0.000399	0.00100	1	09/06/2015 19:51	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 19:51	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 19:51	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 19:51	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 19:51	WG813640
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	09/06/2015 19:51	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 19:51	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 19:51	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 19:51	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 19:51	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 19:51	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 19:51	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 19:51	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 19:51	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 19:51	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 19:51	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 19:51	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 19:51	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 19:51	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 19:51	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 19:51	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 19:51	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 19:51	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 19:51	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 19:51	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 19:51	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 19:51	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 19:51	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 19:51	WG813640
Ethylbenzene	U		0.000384	0.00100	1	09/06/2015 19:51	WG813640
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	09/06/2015 19:51	WG813640
Isopropylbenzene	0.000410	J	0.000326	0.00100	1	09/06/2015 19:51	WG813640
p-Isopropyltoluene	U		0.000350	0.00100	1	09/06/2015 19:51	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 19:51	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 19:51	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 19:51	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 19:51	WG813640
Naphthalene	0.00246	J	0.00100	0.00500	1	09/06/2015 19:51	WG813640
n-Propylbenzene	U		0.000349	0.00100	1	09/06/2015 19:51	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 19:51	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 19:51	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 19:51	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 19:51	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 19:51	WG813640
Toluene	U		0.000780	0.00500	1	09/06/2015 19:51	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 19:51	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 19:51	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 19:51	WG813640
1,1,2-Trichloroethane	U		0.000383	0.00100	1	09/06/2015 19:51	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 19:51	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 19:51	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 19:51	WG813640
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	09/06/2015 19:51	WG813640
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	09/06/2015 19:51	WG813640
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	09/06/2015 19:51	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 19:51	WG813640
Xylenes, Total	0.00185	J	0.00106	0.00300	1	09/06/2015 19:51	WG813640
(S) Toluene-d8	*105*			*90.0-115*		*09/06/2015 19:51*	WG813640
(S) Dibromofluoromethane	*113*			*79.0-121*		*09/06/2015 19:51*	WG813640
(S) 4-Bromofluorobenzene	*97.3*			*80.1-120*		*09/06/2015 19:51*	WG813640

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0000338	J	0.0000140	0.0000500	1	09/09/2015 02:06	WG813411
Acenaphthene	0.000300		0.0000100	0.0000500	1	09/09/2015 02:06	WG813411
Acenaphthylene	0.000140		0.0000120	0.0000500	1	09/09/2015 02:06	WG813411
Benzo(a)anthracene	0.0000721		0.00000410	0.0000500	1	09/09/2015 02:06	WG813411
Benzo(a)pyrene	0.000104		0.0000116	0.0000500	1	09/09/2015 02:06	WG813411
Benzo(b)fluoranthene	0.0000768		0.00000212	0.0000500	1	09/09/2015 02:06	WG813411
Benzo(g,h,i)perylene	0.0000754		0.00000227	0.0000500	1	09/09/2015 02:06	WG813411
Benzo(k)fluoranthene	0.0000266	J	0.0000136	0.0000500	1	09/09/2015 02:06	WG813411
Chrysene	0.0000498	J	0.0000108	0.0000500	1	09/09/2015 02:06	WG813411
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	09/09/2015 02:06	WG813411
Fluoranthene	0.0000740		0.0000157	0.0000500	1	09/09/2015 02:06	WG813411
Fluorene	0.0000178	J	0.00000850	0.0000500	1	09/09/2015 02:06	WG813411
Indeno(1,2,3-cd)pyrene	0.0000529		0.0000148	0.0000500	1	09/09/2015 02:06	WG813411
Naphthalene	0.000519		0.0000198	0.000250	1	09/09/2015 02:06	WG813411
Phenanthrene	0.0000214	J	0.00000820	0.0000500	1	09/09/2015 02:06	WG813411
Pyrene	0.000363		0.0000117	0.0000500	1	09/09/2015 02:06	WG813411
1-Methylnaphthalene	0.000256		0.00000821	0.000250	1	09/09/2015 02:06	WG813411
2-Methylnaphthalene	0.0000174	J	0.00000902	0.000250	1	09/09/2015 02:06	WG813411
2-Chloronaphthalene	U		0.00000647	0.000250	1	09/09/2015 02:06	WG813411
(S) Nitrobenzene-d5	*115*			*33.8-179*		*09/09/2015 02:06*	WG813411
(S) 2-Fluorobiphenyl	*102*			*55.5-150*		*09/09/2015 02:06*	WG813411
(S) p-Terphenyl-d14	*92.0*			*46.2-163*		*09/09/2015 02:06*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	09/06/2015 20:11	WG813640
Acrolein	U		0.00887	0.0500	1	09/06/2015 20:11	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 20:11	WG813640
Benzene	0.0571		0.000331	0.00100	1	09/06/2015 20:11	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 20:11	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 20:11	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 20:11	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 20:11	WG813640
n-Butylbenzene	0.00192		0.000361	0.00100	1	09/06/2015 20:11	WG813640
sec-Butylbenzene	U		0.000365	0.00100	1	09/06/2015 20:11	WG813640
tert-Butylbenzene	U		0.000399	0.00100	1	09/06/2015 20:11	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 20:11	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 20:11	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 20:11	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 20:11	WG813640
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	09/06/2015 20:11	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 20:11	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 20:11	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 20:11	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 20:11	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 20:11	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 20:11	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 20:11	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 20:11	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 20:11	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 20:11	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 20:11	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 20:11	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 20:11	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 20:11	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 20:11	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 20:11	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 20:11	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 20:11	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 20:11	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 20:11	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 20:11	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 20:11	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 20:11	WG813640
Ethylbenzene	0.152		0.000384	0.00100	1	09/06/2015 20:11	WG813640
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	09/06/2015 20:11	WG813640
Isopropylbenzene	0.0291		0.000326	0.00100	1	09/06/2015 20:11	WG813640
p-Isopropyltoluene	U		0.000350	0.00100	1	09/06/2015 20:11	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 20:11	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 20:11	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 20:11	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 20:11	WG813640
Naphthalene	0.00100	J	0.00100	0.00500	1	09/06/2015 20:11	WG813640
n-Propylbenzene	0.00987		0.000349	0.00100	1	09/06/2015 20:11	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 20:11	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 20:11	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 20:11	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 20:11	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 20:11	WG813640
Toluene	0.00649		0.000780	0.00500	1	09/06/2015 20:11	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 20:11	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 20:11	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 20:11	WG813640
1,1,2-Trichloroethane	0.000902	J	0.000383	0.00100	1	09/06/2015 20:11	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 20:11	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 20:11	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 20:11	WG813640
1,2,4-Trimethylbenzene	0.105		0.000373	0.00100	1	09/06/2015 20:11	WG813640
1,2,3-Trimethylbenzene	0.0400		0.000321	0.00100	1	09/06/2015 20:11	WG813640
1,3,5-Trimethylbenzene	0.0392		0.000387	0.00100	1	09/06/2015 20:11	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 20:11	WG813640
Xylenes, Total	0.0837		0.00106	0.00300	1	09/06/2015 20:11	WG813640
(S) Toluene-d8	*106*			*90.0-115*		*09/06/2015 20:11*	WG813640
(S) Dibromofluoromethane	*114*			*79.0-121*		*09/06/2015 20:11*	WG813640
(S) 4-Bromofluorobenzene	*98.4*			*80.1-120*		*09/06/2015 20:11*	WG813640

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0316		0.000280	0.00100	20	09/10/2015 02:31	WG813411
Acenaphthene	0.358		0.000200	0.00100	20	09/10/2015 02:31	WG813411
Acenaphthylene	0.117		0.000240	0.00100	20	09/10/2015 02:31	WG813411
Benzo(a)anthracene	0.00374		0.0000820	0.00100	20	09/10/2015 02:31	WG813411
Benzo(a)pyrene	0.00207		0.000232	0.00100	20	09/10/2015 02:31	WG813411
Benzo(b)fluoranthene	0.00168		0.0000424	0.00100	20	09/10/2015 02:31	WG813411
Benzo(g,h,i)perylene	0.000780	J	0.0000454	0.00100	20	09/10/2015 02:31	WG813411
Benzo(k)fluoranthene	0.000505	J	0.000272	0.00100	20	09/10/2015 02:31	WG813411
Chrysene	0.00325		0.000216	0.00100	20	09/10/2015 02:31	WG813411
Dibenz(a,h)anthracene	U		0.0000792	0.00100	20	09/10/2015 02:31	WG813411
Fluoranthene	0.0116		0.000314	0.00100	20	09/10/2015 02:31	WG813411
Fluorene	0.146		0.000170	0.00100	20	09/10/2015 02:31	WG813411
Indeno(1,2,3-cd)pyrene	0.000996	J	0.000296	0.00100	20	09/10/2015 02:31	WG813411
Naphthalene	1.77		0.000396	0.00500	20	09/10/2015 02:31	WG813411
Phenanthrene	0.115		0.000164	0.00100	20	09/10/2015 02:31	WG813411
Pyrene	0.0135		0.000234	0.00100	20	09/10/2015 02:31	WG813411
1-Methylnaphthalene	1.21		0.000164	0.00500	20	09/10/2015 02:31	WG813411
2-Methylnaphthalene	0.554		0.000180	0.00500	20	09/10/2015 02:31	WG813411
2-Chloronaphthalene	U		0.000129	0.00500	20	09/10/2015 02:31	WG813411
(S) Nitrobenzene-d5	*135*	J7		*33.8-179*		*09/10/2015 02:31*	WG813411
(S) 2-Fluorobiphenyl	*126*	J7		*55.5-150*		*09/10/2015 02:31*	WG813411
(S) p-Terphenyl-d14	*99.3*	J7		*46.2-163*		*09/10/2015 02:31*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	09/06/2015 20:31	WG813640
Acrolein	U		0.00887	0.0500	1	09/06/2015 20:31	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 20:31	WG813640
Benzene	U		0.000331	0.00100	1	09/06/2015 20:31	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 20:31	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 20:31	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 20:31	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 20:31	WG813640
n-Butylbenzene	U		0.000361	0.00100	1	09/06/2015 20:31	WG813640
sec-Butylbenzene	U		0.000365	0.00100	1	09/06/2015 20:31	WG813640
tert-Butylbenzene	U		0.000399	0.00100	1	09/06/2015 20:31	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 20:31	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 20:31	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 20:31	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 20:31	WG813640
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	09/06/2015 20:31	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 20:31	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 20:31	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 20:31	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 20:31	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 20:31	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 20:31	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 20:31	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 20:31	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 20:31	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 20:31	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 20:31	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 20:31	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 20:31	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 20:31	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 20:31	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 20:31	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 20:31	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 20:31	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 20:31	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 20:31	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 20:31	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 20:31	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 20:31	WG813640
Ethylbenzene	U		0.000384	0.00100	1	09/06/2015 20:31	WG813640
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	09/06/2015 20:31	WG813640
Isopropylbenzene	U		0.000326	0.00100	1	09/06/2015 20:31	WG813640
p-Isopropyltoluene	U		0.000350	0.00100	1	09/06/2015 20:31	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 20:31	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 20:31	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 20:31	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 20:31	WG813640
Naphthalene	0.0570		0.00100	0.00500	1	09/06/2015 20:31	WG813640
n-Propylbenzene	U		0.000349	0.00100	1	09/06/2015 20:31	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 20:31	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 20:31	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 20:31	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 20:31	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 20:31	WG813640
Toluene	U		0.000780	0.00500	1	09/06/2015 20:31	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 20:31	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 20:31	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 20:31	WG813640
1,1,2-Trichloroethane	U		0.000383	0.00100	1	09/06/2015 20:31	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 20:31	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 20:31	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 20:31	WG813640
1,2,4-Trimethylbenzene	0.000511	J	0.000373	0.00100	1	09/06/2015 20:31	WG813640
1,2,3-Trimethylbenzene	0.000421	J	0.000321	0.00100	1	09/06/2015 20:31	WG813640
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	09/06/2015 20:31	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 20:31	WG813640
Xylenes, Total	U		0.00106	0.00300	1	09/06/2015 20:31	WG813640
(S) Toluene-d8	*105*			*90.0-115*		*09/06/2015 20:31*	WG813640
(S) Dibromofluoromethane	*114*			*79.0-121*		*09/06/2015 20:31*	WG813640
(S) 4-Bromofluorobenzene	*97.8*			*80.1-120*		*09/06/2015 20:31*	WG813640

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0000164	J	0.0000140	0.0000500	1	09/09/2015 02:49	WG813411
Acenaphthene	0.000115		0.0000100	0.0000500	1	09/09/2015 02:49	WG813411
Acenaphthylene	0.0000361	J	0.0000120	0.0000500	1	09/09/2015 02:49	WG813411
Benzo(a)anthracene	0.0000121	J	0.00000410	0.0000500	1	09/09/2015 02:49	WG813411
Benzo(a)pyrene	U		0.0000116	0.0000500	1	09/09/2015 02:49	WG813411
Benzo(b)fluoranthene	0.00000689	J	0.00000212	0.0000500	1	09/09/2015 02:49	WG813411
Benzo(g,h,i)perylene	0.0000206	J	0.00000227	0.0000500	1	09/09/2015 02:49	WG813411
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	09/09/2015 02:49	WG813411
Chrysene	U		0.0000108	0.0000500	1	09/09/2015 02:49	WG813411
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	09/09/2015 02:49	WG813411
Fluoranthene	U		0.0000157	0.0000500	1	09/09/2015 02:49	WG813411
Fluorene	0.0000438	J	0.00000850	0.0000500	1	09/09/2015 02:49	WG813411
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	09/09/2015 02:49	WG813411
Naphthalene	0.000442		0.0000198	0.000250	1	09/09/2015 02:49	WG813411
Phenanthrene	0.0000481	J	0.00000820	0.0000500	1	09/09/2015 02:49	WG813411
Pyrene	0.0000206	J	0.0000117	0.0000500	1	09/09/2015 02:49	WG813411
1-Methylnaphthalene	0.000303		0.00000821	0.000250	1	09/09/2015 02:49	WG813411
2-Methylnaphthalene	0.000142	J	0.00000902	0.000250	1	09/09/2015 02:49	WG813411
2-Chloronaphthalene	U		0.00000647	0.000250	1	09/09/2015 02:49	WG813411
(S) Nitrobenzene-d5	*131*			*33.8-179*		*09/09/2015 02:49*	WG813411
(S) 2-Fluorobiphenyl	*101*			*55.5-150*		*09/09/2015 02:49*	WG813411
(S) p-Terphenyl-d14	*91.0*			*46.2-163*		*09/09/2015 02:49*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	09/06/2015 20:51	WG813640
Acrolein	U		0.00887	0.0500	1	09/06/2015 20:51	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 20:51	WG813640
Benzene	U		0.000331	0.00100	1	09/06/2015 20:51	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 20:51	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 20:51	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 20:51	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 20:51	WG813640
n-Butylbenzene	U		0.000361	0.00100	1	09/06/2015 20:51	WG813640
sec-Butylbenzene	U		0.000365	0.00100	1	09/06/2015 20:51	WG813640
tert-Butylbenzene	U		0.000399	0.00100	1	09/06/2015 20:51	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 20:51	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 20:51	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 20:51	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 20:51	WG813640
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	09/06/2015 20:51	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 20:51	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 20:51	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 20:51	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 20:51	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 20:51	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 20:51	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 20:51	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 20:51	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 20:51	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 20:51	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 20:51	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 20:51	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 20:51	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 20:51	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 20:51	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 20:51	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 20:51	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 20:51	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 20:51	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 20:51	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 20:51	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 20:51	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 20:51	WG813640
Ethylbenzene	U		0.000384	0.00100	1	09/06/2015 20:51	WG813640
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	09/06/2015 20:51	WG813640
Isopropylbenzene	U		0.000326	0.00100	1	09/06/2015 20:51	WG813640
p-Isopropyltoluene	U		0.000350	0.00100	1	09/06/2015 20:51	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 20:51	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 20:51	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 20:51	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 20:51	WG813640
Naphthalene	0.0284		0.00100	0.00500	1	09/06/2015 20:51	WG813640
n-Propylbenzene	U		0.000349	0.00100	1	09/06/2015 20:51	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 20:51	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 20:51	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 20:51	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 20:51	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 20:51	WG813640
Toluene	U		0.000780	0.00500	1	09/06/2015 20:51	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 20:51	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 20:51	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 20:51	WG813640
1,1,2-Trichloroethane	U		0.000383	0.00100	1	09/06/2015 20:51	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 20:51	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 20:51	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 20:51	WG813640
1,2,4-Trimethylbenzene	0.000707	J	0.000373	0.00100	1	09/06/2015 20:51	WG813640
1,2,3-Trimethylbenzene	0.000499	J	0.000321	0.00100	1	09/06/2015 20:51	WG813640
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	09/06/2015 20:51	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 20:51	WG813640
Xylenes, Total	U		0.00106	0.00300	1	09/06/2015 20:51	WG813640
(S) Toluene-d8	*104*			*90.0-115*		*09/06/2015 20:51*	WG813640
(S) Dibromofluoromethane	*117*			*79.0-121*		*09/06/2015 20:51*	WG813640
(S) 4-Bromofluorobenzene	*97.7*			*80.1-120*		*09/06/2015 20:51*	WG813640

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00264		0.0000140	0.0000500	1	09/09/2015 03:11	WG813411
Acenaphthene	0.00953		0.0000100	0.0000500	1	09/09/2015 03:11	WG813411
Acenaphthylene	0.0104		0.0000120	0.0000500	1	09/09/2015 03:11	WG813411
Benzo(a)anthracene	0.000643		0.00000410	0.0000500	1	09/09/2015 03:11	WG813411
Benzo(a)pyrene	0.000836		0.0000116	0.0000500	1	09/09/2015 03:11	WG813411
Benzo(b)fluoranthene	0.000579		0.00000212	0.0000500	1	09/09/2015 03:11	WG813411
Benzo(g,h,i)perylene	0.000522		0.00000227	0.0000500	1	09/09/2015 03:11	WG813411
Benzo(k)fluoranthene	0.000152		0.0000136	0.0000500	1	09/09/2015 03:11	WG813411
Chrysene	0.000496		0.0000108	0.0000500	1	09/09/2015 03:11	WG813411
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	09/09/2015 03:11	WG813411
Fluoranthene	0.00198		0.0000157	0.0000500	1	09/09/2015 03:11	WG813411
Fluorene	0.00212		0.00000850	0.0000500	1	09/09/2015 03:11	WG813411
Indeno(1,2,3-cd)pyrene	0.000407		0.0000148	0.0000500	1	09/09/2015 03:11	WG813411
Naphthalene	0.000534		0.0000198	0.000250	1	09/09/2015 03:11	WG813411
Phenanthrene	0.00751		0.00000820	0.0000500	1	09/09/2015 03:11	WG813411
Pyrene	0.00421		0.0000117	0.0000500	1	09/09/2015 03:11	WG813411
1-Methylnaphthalene	0.0137		0.00000821	0.000250	1	09/09/2015 03:11	WG813411
2-Methylnaphthalene	0.000190	J	0.00000902	0.000250	1	09/09/2015 03:11	WG813411
2-Chloronaphthalene	U		0.00000647	0.000250	1	09/09/2015 03:11	WG813411
(S) Nitrobenzene-d5	*119*			*33.8-179*		*09/09/2015 03:11*	WG813411
(S) 2-Fluorobiphenyl	*110*			*55.5-150*		*09/09/2015 03:11*	WG813411
(S) p-Terphenyl-d14	*91.6*			*46.2-163*		*09/09/2015 03:11*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	09/06/2015 21:11	WG813640
Acrolein	U		0.00887	0.0500	1	09/06/2015 21:11	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 21:11	WG813640
Benzene	U		0.000331	0.00100	1	09/06/2015 21:11	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 21:11	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 21:11	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 21:11	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 21:11	WG813640
n-Butylbenzene	U		0.000361	0.00100	1	09/06/2015 21:11	WG813640
sec-Butylbenzene	U		0.000365	0.00100	1	09/06/2015 21:11	WG813640
tert-Butylbenzene	U		0.000399	0.00100	1	09/06/2015 21:11	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 21:11	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 21:11	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 21:11	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 21:11	WG813640
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	09/06/2015 21:11	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 21:11	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 21:11	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 21:11	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 21:11	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 21:11	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 21:11	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 21:11	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 21:11	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 21:11	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 21:11	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 21:11	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 21:11	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 21:11	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 21:11	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 21:11	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 21:11	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 21:11	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 21:11	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 21:11	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 21:11	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 21:11	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 21:11	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 21:11	WG813640
Ethylbenzene	0.000934	J	0.000384	0.00100	1	09/06/2015 21:11	WG813640
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	09/06/2015 21:11	WG813640
Isopropylbenzene	0.000444	J	0.000326	0.00100	1	09/06/2015 21:11	WG813640
p-Isopropyltoluene	U		0.000350	0.00100	1	09/06/2015 21:11	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 21:11	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 21:11	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 21:11	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 21:11	WG813640
Naphthalene	0.0352		0.00100	0.00500	1	09/06/2015 21:11	WG813640
n-Propylbenzene	U		0.000349	0.00100	1	09/06/2015 21:11	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 21:11	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 21:11	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 21:11	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 21:11	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 21:11	WG813640
Toluene	U		0.000780	0.00500	1	09/06/2015 21:11	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 21:11	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 21:11	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 21:11	WG813640
1,1,2-Trichloroethane	U		0.000383	0.00100	1	09/06/2015 21:11	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 21:11	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 21:11	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 21:11	WG813640
1,2,4-Trimethylbenzene	0.00248		0.000373	0.00100	1	09/06/2015 21:11	WG813640
1,2,3-Trimethylbenzene	0.000772	J	0.000321	0.00100	1	09/06/2015 21:11	WG813640
1,3,5-Trimethylbenzene	0.000634	J	0.000387	0.00100	1	09/06/2015 21:11	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 21:11	WG813640
Xylenes, Total	U		0.00106	0.00300	1	09/06/2015 21:11	WG813640
(S) Toluene-d8	*107*			*90.0-115*		*09/06/2015 21:11*	WG813640
(S) Dibromofluoromethane	*117*			*79.0-121*		*09/06/2015 21:11*	WG813640
(S) 4-Bromofluorobenzene	*99.9*			*80.1-120*		*09/06/2015 21:11*	WG813640

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0179		0.0000140	0.0000500	1	09/09/2015 03:33	WG813411
Acenaphthene	0.0631		0.0000100	0.0000500	1	09/09/2015 03:33	WG813411
Acenaphthylene	0.0395		0.0000120	0.0000500	1	09/09/2015 03:33	WG813411
Benzo(a)anthracene	0.00144		0.00000410	0.0000500	1	09/09/2015 03:33	WG813411
Benzo(a)pyrene	0.00118		0.0000116	0.0000500	1	09/09/2015 03:33	WG813411
Benzo(b)fluoranthene	0.000928		0.00000212	0.0000500	1	09/09/2015 03:33	WG813411
Benzo(g,h,i)perylene	0.000753		0.00000227	0.0000500	1	09/09/2015 03:33	WG813411
Benzo(k)fluoranthene	0.000236		0.0000136	0.0000500	1	09/09/2015 03:33	WG813411
Chrysene	0.00136		0.0000108	0.0000500	1	09/09/2015 03:33	WG813411
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	09/09/2015 03:33	WG813411
Fluoranthene	0.0101		0.0000157	0.0000500	1	09/09/2015 03:33	WG813411
Fluorene	0.0453		0.00000850	0.0000500	1	09/09/2015 03:33	WG813411
Indeno(1,2,3-cd)pyrene	0.000557		0.0000148	0.0000500	1	09/09/2015 03:33	WG813411
Naphthalene	0.0166		0.0000198	0.000250	1	09/09/2015 03:33	WG813411
Phenanthrene	0.0989		0.00000820	0.0000500	1	09/09/2015 03:33	WG813411
Pyrene	0.0123		0.0000117	0.0000500	1	09/09/2015 03:33	WG813411
1-Methylnaphthalene	0.0965		0.00000821	0.000250	1	09/09/2015 03:33	WG813411
2-Methylnaphthalene	0.00186		0.00000902	0.000250	1	09/09/2015 03:33	WG813411
2-Chloronaphthalene	U		0.00000647	0.000250	1	09/09/2015 03:33	WG813411
(S) Nitrobenzene-d5	*114*			*33.8-179*		*09/09/2015 03:33*	WG813411
(S) 2-Fluorobiphenyl	*106*			*55.5-150*		*09/09/2015 03:33*	WG813411
(S) p-Terphenyl-d14	*89.9*			*46.2-163*		*09/09/2015 03:33*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	09/06/2015 18:51	WG813640
Acrolein	U	J5	0.00887	0.0500	1	09/06/2015 18:51	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 18:51	WG813640
Benzene	0.0190		0.000331	0.00100	1	09/06/2015 18:51	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 18:51	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 18:51	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 18:51	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 18:51	WG813640
n-Butylbenzene	0.000621	J	0.000361	0.00100	1	09/06/2015 18:51	WG813640
sec-Butylbenzene	U	J3	0.000365	0.00100	1	09/06/2015 18:51	WG813640
tert-Butylbenzene	U	J3	0.000399	0.00100	1	09/06/2015 18:51	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 18:51	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 18:51	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 18:51	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 18:51	WG813640
2-Chloroethyl vinyl ether	U	J6	0.00301	0.0500	1	09/06/2015 18:51	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 18:51	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 18:51	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 18:51	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 18:51	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 18:51	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 18:51	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 18:51	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 18:51	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 18:51	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 18:51	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 18:51	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 18:51	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 18:51	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 18:51	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 18:51	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 18:51	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 18:51	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 18:51	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 18:51	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 18:51	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 18:51	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 18:51	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 18:51	WG813640
Ethylbenzene	0.0391		0.000384	0.00100	1	09/06/2015 18:51	WG813640
Hexachloro-1,3-butadiene	U	J3	0.000256	0.00100	1	09/06/2015 18:51	WG813640
Isopropylbenzene	0.0133		0.000326	0.00100	1	09/06/2015 18:51	WG813640
p-Isopropyltoluene	U	J3	0.000350	0.00100	1	09/06/2015 18:51	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 18:51	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 18:51	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 18:51	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 18:51	WG813640
Naphthalene	0.256		0.00500	0.0250	5	09/12/2015 14:10	WG814856
n-Propylbenzene	0.00195		0.000349	0.00100	1	09/06/2015 18:51	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 18:51	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 18:51	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 18:51	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 18:51	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 18:51	WG813640
Toluene	0.00209	J	0.000780	0.00500	1	09/06/2015 18:51	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 18:51	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 18:51	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 18:51	WG813640
1,1,2-Trichloroethane	0.000635	J	0.000383	0.00100	1	09/06/2015 18:51	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 18:51	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 18:51	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 18:51	WG813640
1,2,4-Trimethylbenzene	0.0199		0.000373	0.00100	1	09/06/2015 18:51	WG813640
1,2,3-Trimethylbenzene	0.0211		0.000321	0.00100	1	09/06/2015 18:51	WG813640
1,3,5-Trimethylbenzene	0.00186	J3	0.000387	0.00100	1	09/06/2015 18:51	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 18:51	WG813640
Xylenes, Total	0.0468		0.00106	0.00300	1	09/06/2015 18:51	WG813640
(S) Toluene-d8	*104*			*90.0-115*		*09/06/2015 18:51*	WG813640
(S) Dibromofluoromethane	*103*			*79.0-121*		*09/06/2015 18:51*	WG813640
(S) 4-Bromofluorobenzene	*97.4*			*80.1-120*		*09/06/2015 18:51*	WG813640

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0135		0.0000140	0.0000500	1	09/09/2015 03:55	WG813411
Acenaphthene	0.132		0.000200	0.00100	20	09/10/2015 02:52	WG813411
Acenaphthylene	0.0525	V	0.0000120	0.0000500	1	09/09/2015 03:55	WG813411
Benzo(a)anthracene	0.000140		0.00000410	0.0000500	1	09/09/2015 03:55	WG813411
Benzo(a)pyrene	0.0000164	J	0.0000116	0.0000500	1	09/09/2015 03:55	WG813411
Benzo(b)fluoranthene	0.0000157	J	0.00000212	0.0000500	1	09/09/2015 03:55	WG813411
Benzo(g,h,i)perylene	0.0000124	J	0.00000227	0.0000500	1	09/09/2015 03:55	WG813411
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	09/09/2015 03:55	WG813411
Chrysene	0.000104		0.0000108	0.0000500	1	09/09/2015 03:55	WG813411
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	09/09/2015 03:55	WG813411
Fluoranthene	0.00439		0.0000157	0.0000500	1	09/09/2015 03:55	WG813411
Fluorene	0.0254	V	0.00000850	0.0000500	1	09/09/2015 03:55	WG813411
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	09/09/2015 03:55	WG813411
Naphthalene	0.246		0.000396	0.00500	20	09/10/2015 02:52	WG813411
Phenanthrene	0.0578	V	0.00000820	0.0000500	1	09/09/2015 03:55	WG813411
Pyrene	0.00516	J6	0.0000117	0.0000500	1	09/09/2015 03:55	WG813411
1-Methylnaphthalene	0.456		0.000164	0.00500	20	09/10/2015 02:52	WG813411
2-Methylnaphthalene	0.00329		0.00000902	0.000250	1	09/09/2015 03:55	WG813411
2-Chloronaphthalene	U		0.00000647	0.000250	1	09/09/2015 03:55	WG813411
(S) Nitrobenzene-d5	*115*			*33.8-179*		*09/09/2015 03:55*	WG813411
(S) 2-Fluorobiphenyl	*104*			*55.5-150*		*09/09/2015 03:55*	WG813411
(S) p-Terphenyl-d14	*95.4*			*46.2-163*		*09/09/2015 03:55*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	09/06/2015 21:31	WG813640
Acrolein	U		0.00887	0.0500	1	09/06/2015 21:31	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 21:31	WG813640
Benzene	0.00400		0.000331	0.00100	1	09/06/2015 21:31	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 21:31	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 21:31	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 21:31	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 21:31	WG813640
n-Butylbenzene	U		0.000361	0.00100	1	09/06/2015 21:31	WG813640
sec-Butylbenzene	U		0.000365	0.00100	1	09/06/2015 21:31	WG813640
tert-Butylbenzene	U		0.000399	0.00100	1	09/06/2015 21:31	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 21:31	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 21:31	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 21:31	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 21:31	WG813640
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	09/06/2015 21:31	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 21:31	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 21:31	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 21:31	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 21:31	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 21:31	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 21:31	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 21:31	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 21:31	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 21:31	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 21:31	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 21:31	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 21:31	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 21:31	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 21:31	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 21:31	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 21:31	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 21:31	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 21:31	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 21:31	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 21:31	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 21:31	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 21:31	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 21:31	WG813640
Ethylbenzene	0.000909	J	0.000384	0.00100	1	09/06/2015 21:31	WG813640
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	09/06/2015 21:31	WG813640
Isopropylbenzene	0.00122		0.000326	0.00100	1	09/06/2015 21:31	WG813640
p-Isopropyltoluene	U		0.000350	0.00100	1	09/06/2015 21:31	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 21:31	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 21:31	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 21:31	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 21:31	WG813640
Naphthalene	0.0397		0.00100	0.00500	1	09/06/2015 21:31	WG813640
n-Propylbenzene	U		0.000349	0.00100	1	09/06/2015 21:31	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 21:31	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 21:31	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 21:31	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 21:31	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 21:31	WG813640
Toluene	U		0.000780	0.00500	1	09/06/2015 21:31	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 21:31	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 21:31	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 21:31	WG813640
1,1,2-Trichloroethane	U		0.000383	0.00100	1	09/06/2015 21:31	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 21:31	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 21:31	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 21:31	WG813640
1,2,4-Trimethylbenzene	0.00429		0.000373	0.00100	1	09/06/2015 21:31	WG813640
1,2,3-Trimethylbenzene	0.00243		0.000321	0.00100	1	09/06/2015 21:31	WG813640
1,3,5-Trimethylbenzene	0.000570	J	0.000387	0.00100	1	09/06/2015 21:31	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 21:31	WG813640
Xylenes, Total	0.00549		0.00106	0.00300	1	09/06/2015 21:31	WG813640
(S) Toluene-d8	*106*			*90.0-115*		*09/06/2015 21:31*	WG813640
(S) Dibromofluoromethane	*119*			*79.0-121*		*09/06/2015 21:31*	WG813640
(S) 4-Bromofluorobenzene	*98.5*			*80.1-120*		*09/06/2015 21:31*	WG813640

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.000166		0.0000140	0.0000500	1	09/09/2015 05:00	WG813411
Acenaphthene	0.00701		0.0000100	0.0000500	1	09/09/2015 05:00	WG813411
Acenaphthylene	0.000594		0.0000120	0.0000500	1	09/09/2015 05:00	WG813411
Benzo(a)anthracene	0.0000210	J	0.00000410	0.0000500	1	09/09/2015 05:00	WG813411
Benzo(a)pyrene	U		0.0000116	0.0000500	1	09/09/2015 05:00	WG813411
Benzo(b)fluoranthene	0.00000576	J	0.00000212	0.0000500	1	09/09/2015 05:00	WG813411
Benzo(g,h,i)perylene	0.00000372	J	0.00000227	0.0000500	1	09/09/2015 05:00	WG813411
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	09/09/2015 05:00	WG813411
Chrysene	0.0000162	J	0.0000108	0.0000500	1	09/09/2015 05:00	WG813411
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	09/09/2015 05:00	WG813411
Fluoranthene	0.000114		0.0000157	0.0000500	1	09/09/2015 05:00	WG813411
Fluorene	0.000349		0.00000850	0.0000500	1	09/09/2015 05:00	WG813411
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	09/09/2015 05:00	WG813411
Naphthalene	0.000194	J	0.0000198	0.000250	1	09/09/2015 05:00	WG813411
Phenanthrene	0.0000441	J	0.00000820	0.0000500	1	09/09/2015 05:00	WG813411
Pyrene	0.000124		0.0000117	0.0000500	1	09/09/2015 05:00	WG813411
1-Methylnaphthalene	0.0163		0.00000821	0.000250	1	09/09/2015 05:00	WG813411
2-Methylnaphthalene	0.0000667	J	0.00000902	0.000250	1	09/09/2015 05:00	WG813411
2-Chloronaphthalene	U		0.00000647	0.000250	1	09/09/2015 05:00	WG813411
(S) Nitrobenzene-d5	*132*			*33.8-179*		*09/09/2015 05:00*	WG813411
(S) 2-Fluorobiphenyl	*107*			*55.5-150*		*09/09/2015 05:00*	WG813411
(S) p-Terphenyl-d14	*93.2*			*46.2-163*		*09/09/2015 05:00*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0500	0.250	5	09/10/2015 22:58	WG814521
Acrolein	U		0.0444	0.250	5	09/10/2015 22:58	WG814521
Acrylonitrile	U		0.00935	0.0500	5	09/10/2015 22:58	WG814521
Benzene	0.0231		0.00166	0.00500	5	09/10/2015 22:58	WG814521
Bromobenzene	U		0.00176	0.00500	5	09/10/2015 22:58	WG814521
Bromodichloromethane	U		0.00190	0.00500	5	09/10/2015 22:58	WG814521
Bromoform	U		0.00234	0.00500	5	09/10/2015 22:58	WG814521
Bromomethane	U		0.00433	0.0250	5	09/10/2015 22:58	WG814521
n-Butylbenzene	0.00217	J	0.00180	0.00500	5	09/10/2015 22:58	WG814521
sec-Butylbenzene	U		0.00182	0.00500	5	09/10/2015 22:58	WG814521
tert-Butylbenzene	U		0.00200	0.00500	5	09/10/2015 22:58	WG814521
Carbon tetrachloride	U		0.00190	0.00500	5	09/10/2015 22:58	WG814521
Chlorobenzene	U		0.00174	0.00500	5	09/10/2015 22:58	WG814521
Chlorodibromomethane	U		0.00164	0.00500	5	09/10/2015 22:58	WG814521
Chloroethane	U		0.00226	0.0250	5	09/10/2015 22:58	WG814521
2-Chloroethyl vinyl ether	U		0.0150	0.250	5	09/10/2015 22:58	WG814521
Chloroform	U		0.00162	0.0250	5	09/10/2015 22:58	WG814521
Chloromethane	U		0.00138	0.0125	5	09/10/2015 22:58	WG814521
2-Chlorotoluene	U		0.00188	0.00500	5	09/10/2015 22:58	WG814521
4-Chlorotoluene	U		0.00176	0.00500	5	09/10/2015 22:58	WG814521
1,2-Dibromo-3-Chloropropane	U		0.00665	0.0250	5	09/10/2015 22:58	WG814521
1,2-Dibromoethane	U		0.00190	0.00500	5	09/10/2015 22:58	WG814521
Dibromomethane	U		0.00173	0.00500	5	09/10/2015 22:58	WG814521
1,2-Dichlorobenzene	U		0.00174	0.00500	5	09/10/2015 22:58	WG814521
1,3-Dichlorobenzene	U		0.00110	0.00500	5	09/10/2015 22:58	WG814521
1,4-Dichlorobenzene	U		0.00137	0.00500	5	09/10/2015 22:58	WG814521
Dichlorodifluoromethane	U		0.00276	0.0250	5	09/10/2015 22:58	WG814521
1,1-Dichloroethane	U		0.00130	0.00500	5	09/10/2015 22:58	WG814521
1,2-Dichloroethane	U		0.00180	0.00500	5	09/10/2015 22:58	WG814521
1,1-Dichloroethene	U		0.00199	0.00500	5	09/10/2015 22:58	WG814521
cis-1,2-Dichloroethene	U		0.00130	0.00500	5	09/10/2015 22:58	WG814521
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	09/10/2015 22:58	WG814521
1,2-Dichloropropane	U		0.00153	0.00500	5	09/10/2015 22:58	WG814521
1,1-Dichloropropene	U		0.00176	0.00500	5	09/10/2015 22:58	WG814521
1,3-Dichloropropane	U		0.00183	0.00500	5	09/10/2015 22:58	WG814521
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	09/10/2015 22:58	WG814521
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	09/10/2015 22:58	WG814521
2,2-Dichloropropane	U		0.00160	0.00500	5	09/10/2015 22:58	WG814521
Di-isopropyl ether	U		0.00160	0.00500	5	09/10/2015 22:58	WG814521
Ethylbenzene	0.323		0.00192	0.00500	5	09/10/2015 22:58	WG814521
Hexachloro-1,3-butadiene	U		0.00128	0.00500	5	09/10/2015 22:58	WG814521
Isopropylbenzene	0.0551		0.00163	0.00500	5	09/10/2015 22:58	WG814521
p-Isopropyltoluene	0.00441	J	0.00175	0.00500	5	09/10/2015 22:58	WG814521
2-Butanone (MEK)	U		0.0196	0.0500	5	09/10/2015 22:58	WG814521
Methylene Chloride	U		0.00500	0.0250	5	09/10/2015 22:58	WG814521
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	09/10/2015 22:58	WG814521
Methyl tert-butyl ether	U		0.00184	0.00500	5	09/10/2015 22:58	WG814521
Naphthalene	3.58		0.100	0.500	100	09/12/2015 14:29	WG814856
n-Propylbenzene	0.0161		0.00174	0.00500	5	09/10/2015 22:58	WG814521
Styrene	U		0.00154	0.00500	5	09/10/2015 22:58	WG814521
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	09/10/2015 22:58	WG814521
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	09/10/2015 22:58	WG814521
1,1,2-Trichlorotrifluoroethane	U		0.00152	0.00500	5	09/10/2015 22:58	WG814521
Tetrachloroethene	U		0.00186	0.00500	5	09/10/2015 22:58	WG814521
Toluene	0.0248	J	0.00390	0.0250	5	09/10/2015 22:58	WG814521
1,2,3-Trichlorobenzene	U		0.00115	0.00500	5	09/10/2015 22:58	WG814521

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.00178	0.00500	5	09/10/2015 22:58	WG814521
1,1,1-Trichloroethane	U		0.00160	0.00500	5	09/10/2015 22:58	WG814521
1,1,2-Trichloroethane	U		0.00192	0.00500	5	09/10/2015 22:58	WG814521
Trichloroethene	U		0.00199	0.00500	5	09/10/2015 22:58	WG814521
Trichlorofluoromethane	U		0.00600	0.0250	5	09/10/2015 22:58	WG814521
1,2,3-Trichloropropane	U		0.00404	0.0125	5	09/10/2015 22:58	WG814521
1,2,4-Trimethylbenzene	0.238		0.00186	0.00500	5	09/10/2015 22:58	WG814521
1,2,3-Trimethylbenzene	0.0740		0.00160	0.00500	5	09/10/2015 22:58	WG814521
1,3,5-Trimethylbenzene	0.0644		0.00194	0.00500	5	09/10/2015 22:58	WG814521
Vinyl chloride	U		0.00130	0.00500	5	09/10/2015 22:58	WG814521
Xylenes, Total	0.295		0.00530	0.0150	5	09/10/2015 22:58	WG814521
(S) Toluene-d8	*101*			*90.0-115*		*09/10/2015 22:58*	WG814521
(S) Dibromofluoromethane	*102*			*79.0-121*		*09/10/2015 22:58*	WG814521
(S) 4-Bromofluorobenzene	*95.9*			*80.1-120*		*09/10/2015 22:58*	WG814521

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0209		0.000280	0.00100	20	09/10/2015 03:14	WG813411
Acenaphthene	0.294		0.000200	0.00100	20	09/10/2015 03:14	WG813411
Acenaphthylene	0.122		0.000240	0.00100	20	09/10/2015 03:14	WG813411
Benzo(a)anthracene	0.0000538		0.00000410	0.0000500	1	09/09/2015 05:22	WG813411
Benzo(a)pyrene	U		0.0000116	0.0000500	1	09/09/2015 05:22	WG813411
Benzo(b)fluoranthene	0.00000390	J	0.00000212	0.0000500	1	09/09/2015 05:22	WG813411
Benzo(g,h,i)perylene	0.00000441	J	0.00000227	0.0000500	1	09/09/2015 05:22	WG813411
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	09/09/2015 05:22	WG813411
Chrysene	0.0000334	J	0.0000108	0.0000500	1	09/09/2015 05:22	WG813411
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	09/09/2015 05:22	WG813411
Fluoranthene	0.00444		0.000314	0.00100	20	09/10/2015 03:14	WG813411
Fluorene	0.0483		0.000170	0.00100	20	09/10/2015 03:14	WG813411
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	09/09/2015 05:22	WG813411
Naphthalene	4.27		0.000990	0.0125	50	09/14/2015 10:17	WG813411
Phenanthrene	0.0891		0.000164	0.00100	20	09/10/2015 03:14	WG813411
Pyrene	0.00437		0.0000117	0.0000500	1	09/09/2015 05:22	WG813411
1-Methylnaphthalene	1.08		0.000164	0.00500	20	09/10/2015 03:14	WG813411
2-Methylnaphthalene	0.467		0.000180	0.00500	20	09/10/2015 03:14	WG813411
2-Chloronaphthalene	0.000657	J	0.000129	0.00500	20	09/10/2015 03:14	WG813411
(S) Nitrobenzene-d5	*114*	J7		*33.8-179*		*09/10/2015 03:14*	WG813411
(S) 2-Fluorobiphenyl	*122*	J7		*55.5-150*		*09/10/2015 03:14*	WG813411
(S) p-Terphenyl-d14	*93.5*			*46.2-163*		*09/09/2015 05:22*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	09/06/2015 22:10	WG813640
Acrolein	U		0.00887	0.0500	1	09/06/2015 22:10	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 22:10	WG813640
Benzene	U		0.000331	0.00100	1	09/06/2015 22:10	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 22:10	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 22:10	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 22:10	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 22:10	WG813640
n-Butylbenzene	U		0.000361	0.00100	1	09/06/2015 22:10	WG813640
sec-Butylbenzene	U		0.000365	0.00100	1	09/06/2015 22:10	WG813640
tert-Butylbenzene	U		0.000399	0.00100	1	09/06/2015 22:10	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 22:10	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 22:10	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 22:10	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 22:10	WG813640
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	09/06/2015 22:10	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 22:10	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 22:10	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 22:10	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 22:10	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 22:10	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 22:10	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 22:10	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 22:10	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 22:10	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 22:10	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 22:10	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 22:10	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 22:10	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 22:10	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 22:10	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 22:10	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 22:10	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 22:10	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 22:10	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 22:10	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 22:10	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 22:10	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 22:10	WG813640
Ethylbenzene	U		0.000384	0.00100	1	09/06/2015 22:10	WG813640
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	09/06/2015 22:10	WG813640
Isopropylbenzene	U		0.000326	0.00100	1	09/06/2015 22:10	WG813640
p-Isopropyltoluene	U		0.000350	0.00100	1	09/06/2015 22:10	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 22:10	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 22:10	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 22:10	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 22:10	WG813640
Naphthalene	0.00300	J	0.00100	0.00500	1	09/06/2015 22:10	WG813640
n-Propylbenzene	U		0.000349	0.00100	1	09/06/2015 22:10	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 22:10	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 22:10	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 22:10	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 22:10	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 22:10	WG813640
Toluene	U		0.000780	0.00500	1	09/06/2015 22:10	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 22:10	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 22:10	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 22:10	WG813640
1,1,2-Trichloroethane	U		0.000383	0.00100	1	09/06/2015 22:10	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 22:10	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 22:10	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 22:10	WG813640
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	09/06/2015 22:10	WG813640
1,2,3-Trimethylbenzene	0.000560	J	0.000321	0.00100	1	09/06/2015 22:10	WG813640
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	09/06/2015 22:10	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 22:10	WG813640
Xylenes, Total	0.00118	J	0.00106	0.00300	1	09/06/2015 22:10	WG813640
(S) Toluene-d8	*106*			*90.0-115*		*09/06/2015 22:10*	WG813640
(S) Dibromofluoromethane	*121*			*79.0-121*		*09/06/2015 22:10*	WG813640
(S) 4-Bromofluorobenzene	*98.9*			*80.1-120*		*09/06/2015 22:10*	WG813640

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00892		0.0000140	0.0000500	1	09/09/2015 05:44	WG813411
Acenaphthene	0.00327		0.0000100	0.0000500	1	09/09/2015 05:44	WG813411
Acenaphthylene	0.00434		0.0000120	0.0000500	1	09/09/2015 05:44	WG813411
Benzo(a)anthracene	0.000435		0.00000410	0.0000500	1	09/09/2015 05:44	WG813411
Benzo(a)pyrene	0.000133		0.0000116	0.0000500	1	09/09/2015 05:44	WG813411
Benzo(b)fluoranthene	0.000105		0.00000212	0.0000500	1	09/09/2015 05:44	WG813411
Benzo(g,h,i)perylene	0.0000392	J	0.00000227	0.0000500	1	09/09/2015 05:44	WG813411
Benzo(k)fluoranthene	0.0000291	J	0.0000136	0.0000500	1	09/09/2015 05:44	WG813411
Chrysene	0.000385		0.0000108	0.0000500	1	09/09/2015 05:44	WG813411
Dibenz(a,h)anthracene	0.0000111	J	0.00000396	0.0000500	1	09/09/2015 05:44	WG813411
Fluoranthene	0.00500		0.0000157	0.0000500	1	09/09/2015 05:44	WG813411
Fluorene	0.000930		0.00000850	0.0000500	1	09/09/2015 05:44	WG813411
Indeno(1,2,3-cd)pyrene	0.0000311	J	0.0000148	0.0000500	1	09/09/2015 05:44	WG813411
Naphthalene	0.00117		0.0000198	0.000250	1	09/09/2015 05:44	WG813411
Phenanthrene	0.0121		0.00000820	0.0000500	1	09/09/2015 05:44	WG813411
Pyrene	0.00632		0.0000117	0.0000500	1	09/09/2015 05:44	WG813411
1-Methylnaphthalene	0.00164		0.00000821	0.000250	1	09/09/2015 05:44	WG813411
2-Methylnaphthalene	0.000151	J	0.00000902	0.000250	1	09/09/2015 05:44	WG813411
2-Chloronaphthalene	U		0.00000647	0.000250	1	09/09/2015 05:44	WG813411
(S) Nitrobenzene-d5	*134*			*33.8-179*		*09/09/2015 05:44*	WG813411
(S) 2-Fluorobiphenyl	*101*			*55.5-150*		*09/09/2015 05:44*	WG813411
(S) p-Terphenyl-d14	*88.5*			*46.2-163*		*09/09/2015 05:44*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	09/06/2015 22:30	WG813640
Acrolein	U		0.00887	0.0500	1	09/06/2015 22:30	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 22:30	WG813640
Benzene	0.00123		0.000331	0.00100	1	09/06/2015 22:30	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 22:30	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 22:30	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 22:30	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 22:30	WG813640
n-Butylbenzene	U		0.000361	0.00100	1	09/06/2015 22:30	WG813640
sec-Butylbenzene	U		0.000365	0.00100	1	09/06/2015 22:30	WG813640
tert-Butylbenzene	U		0.000399	0.00100	1	09/06/2015 22:30	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 22:30	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 22:30	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 22:30	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 22:30	WG813640
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	09/06/2015 22:30	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 22:30	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 22:30	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 22:30	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 22:30	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 22:30	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 22:30	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 22:30	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 22:30	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 22:30	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 22:30	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 22:30	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 22:30	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 22:30	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 22:30	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 22:30	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 22:30	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 22:30	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 22:30	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 22:30	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 22:30	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 22:30	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 22:30	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 22:30	WG813640
Ethylbenzene	U		0.000384	0.00100	1	09/06/2015 22:30	WG813640
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	09/06/2015 22:30	WG813640
Isopropylbenzene	0.000448	J	0.000326	0.00100	1	09/06/2015 22:30	WG813640
p-Isopropyltoluene	0.000353	J	0.000350	0.00100	1	09/06/2015 22:30	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 22:30	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 22:30	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 22:30	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 22:30	WG813640
Naphthalene	0.0519		0.00100	0.00500	1	09/06/2015 22:30	WG813640
n-Propylbenzene	U		0.000349	0.00100	1	09/06/2015 22:30	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 22:30	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 22:30	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 22:30	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 22:30	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 22:30	WG813640
Toluene	U		0.000780	0.00500	1	09/06/2015 22:30	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 22:30	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 22:30	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 22:30	WG813640
1,1,2-Trichloroethane	U		0.000383	0.00100	1	09/06/2015 22:30	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 22:30	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 22:30	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 22:30	WG813640
1,2,4-Trimethylbenzene	0.00485		0.000373	0.00100	1	09/06/2015 22:30	WG813640
1,2,3-Trimethylbenzene	0.00272		0.000321	0.00100	1	09/06/2015 22:30	WG813640
1,3,5-Trimethylbenzene	0.00309		0.000387	0.00100	1	09/06/2015 22:30	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 22:30	WG813640
Xylenes, Total	0.00479		0.00106	0.00300	1	09/06/2015 22:30	WG813640
(S) Toluene-d8	*105*			*90.0-115*		*09/06/2015 22:30*	WG813640
(S) Dibromofluoromethane	*117*			*79.0-121*		*09/06/2015 22:30*	WG813640
(S) 4-Bromofluorobenzene	*98.1*			*80.1-120*		*09/06/2015 22:30*	WG813640

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00502		0.0000140	0.0000500	1	09/09/2015 06:06	WG813411
Acenaphthene	0.0446		0.0000100	0.0000500	1	09/09/2015 06:06	WG813411
Acenaphthylene	0.00361		0.0000120	0.0000500	1	09/09/2015 06:06	WG813411
Benzo(a)anthracene	0.000295		0.00000410	0.0000500	1	09/09/2015 06:06	WG813411
Benzo(a)pyrene	0.0000954		0.0000116	0.0000500	1	09/09/2015 06:06	WG813411
Benzo(b)fluoranthene	0.0000814		0.00000212	0.0000500	1	09/09/2015 06:06	WG813411
Benzo(g,h,i)perylene	0.0000383	J	0.00000227	0.0000500	1	09/09/2015 06:06	WG813411
Benzo(k)fluoranthene	0.0000319	J	0.0000136	0.0000500	1	09/09/2015 06:06	WG813411
Chrysene	0.000274		0.0000108	0.0000500	1	09/09/2015 06:06	WG813411
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	09/09/2015 06:06	WG813411
Fluoranthene	0.00312		0.0000157	0.0000500	1	09/09/2015 06:06	WG813411
Fluorene	0.00965		0.00000850	0.0000500	1	09/09/2015 06:06	WG813411
Indeno(1,2,3-cd)pyrene	0.0000296	J	0.0000148	0.0000500	1	09/09/2015 06:06	WG813411
Naphthalene	0.000649		0.0000198	0.000250	1	09/09/2015 06:06	WG813411
Phenanthrene	0.00613		0.00000820	0.0000500	1	09/09/2015 06:06	WG813411
Pyrene	0.00331		0.0000117	0.0000500	1	09/09/2015 06:06	WG813411
1-Methylnaphthalene	0.0320		0.00000821	0.000250	1	09/09/2015 06:06	WG813411
2-Methylnaphthalene	0.000326		0.00000902	0.000250	1	09/09/2015 06:06	WG813411
2-Chloronaphthalene	U		0.00000647	0.000250	1	09/09/2015 06:06	WG813411
(S) Nitrobenzene-d5	*112*			*33.8-179*		*09/09/2015 06:06*	WG813411
(S) 2-Fluorobiphenyl	*100*			*55.5-150*		*09/09/2015 06:06*	WG813411
(S) p-Terphenyl-d14	*92.6*			*46.2-163*		*09/09/2015 06:06*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	09/06/2015 22:50	WG813640
Acrolein	U		0.00887	0.0500	1	09/06/2015 22:50	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 22:50	WG813640
Benzene	U		0.000331	0.00100	1	09/06/2015 22:50	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 22:50	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 22:50	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 22:50	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 22:50	WG813640
n-Butylbenzene	U		0.000361	0.00100	1	09/06/2015 22:50	WG813640
sec-Butylbenzene	U		0.000365	0.00100	1	09/06/2015 22:50	WG813640
tert-Butylbenzene	U		0.000399	0.00100	1	09/06/2015 22:50	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 22:50	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 22:50	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 22:50	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 22:50	WG813640
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	09/06/2015 22:50	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 22:50	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 22:50	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 22:50	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 22:50	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 22:50	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 22:50	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 22:50	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 22:50	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 22:50	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 22:50	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 22:50	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 22:50	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 22:50	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 22:50	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 22:50	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 22:50	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 22:50	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 22:50	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 22:50	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 22:50	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 22:50	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 22:50	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 22:50	WG813640
Ethylbenzene	0.000384	J	0.000384	0.00100	1	09/06/2015 22:50	WG813640
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	09/06/2015 22:50	WG813640
Isopropylbenzene	U		0.000326	0.00100	1	09/06/2015 22:50	WG813640
p-Isopropyltoluene	U		0.000350	0.00100	1	09/06/2015 22:50	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 22:50	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 22:50	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 22:50	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 22:50	WG813640
Naphthalene	0.00388	J	0.00100	0.00500	1	09/06/2015 22:50	WG813640
n-Propylbenzene	U		0.000349	0.00100	1	09/06/2015 22:50	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 22:50	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 22:50	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 22:50	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 22:50	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 22:50	WG813640
Toluene	U		0.000780	0.00500	1	09/06/2015 22:50	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 22:50	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 22:50	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 22:50	WG813640
1,1,2-Trichloroethane	U		0.000383	0.00100	1	09/06/2015 22:50	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 22:50	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 22:50	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 22:50	WG813640
1,2,4-Trimethylbenzene	0.000529	J	0.000373	0.00100	1	09/06/2015 22:50	WG813640
1,2,3-Trimethylbenzene	0.000468	J	0.000321	0.00100	1	09/06/2015 22:50	WG813640
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	09/06/2015 22:50	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 22:50	WG813640
Xylenes, Total	U		0.00106	0.00300	1	09/06/2015 22:50	WG813640
(S) Toluene-d8	*105*			*90.0-115*		*09/06/2015 22:50*	WG813640
(S) Dibromofluoromethane	*117*			*79.0-121*		*09/06/2015 22:50*	WG813640
(S) 4-Bromofluorobenzene	*96.1*			*80.1-120*		*09/06/2015 22:50*	WG813640

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.000795		0.0000280	0.000100	2	09/09/2015 06:28	WG813411
Acenaphthene	0.000650		0.0000200	0.000100	2	09/09/2015 06:28	WG813411
Acenaphthylene	0.00167		0.0000240	0.000100	2	09/09/2015 06:28	WG813411
Benzo(a)anthracene	0.000150		0.00000820	0.000100	2	09/09/2015 06:28	WG813411
Benzo(a)pyrene	0.0000675	J	0.0000232	0.000100	2	09/09/2015 06:28	WG813411
Benzo(b)fluoranthene	0.0000566	J	0.00000424	0.000100	2	09/09/2015 06:28	WG813411
Benzo(g,h,i)perylene	0.0000283	J	0.00000454	0.000100	2	09/09/2015 06:28	WG813411
Benzo(k)fluoranthene	U		0.0000272	0.000100	2	09/09/2015 06:28	WG813411
Chrysene	0.000149		0.0000216	0.000100	2	09/09/2015 06:28	WG813411
Dibenz(a,h)anthracene	U		0.00000792	0.000100	2	09/09/2015 06:28	WG813411
Fluoranthene	0.000645		0.0000314	0.000100	2	09/09/2015 06:28	WG813411
Fluorene	0.000513		0.0000170	0.000100	2	09/09/2015 06:28	WG813411
Indeno(1,2,3-cd)pyrene	U		0.0000296	0.000100	2	09/09/2015 06:28	WG813411
Naphthalene	0.00104		0.0000396	0.000500	2	09/09/2015 06:28	WG813411
Phenanthrene	0.00117		0.0000164	0.000100	2	09/09/2015 06:28	WG813411
Pyrene	0.000977		0.0000234	0.000100	2	09/09/2015 06:28	WG813411
1-Methylnaphthalene	0.00271		0.0000164	0.000500	2	09/09/2015 06:28	WG813411
2-Methylnaphthalene	0.0000267	J	0.0000180	0.000500	2	09/09/2015 06:28	WG813411
2-Chloronaphthalene	U		0.0000129	0.000500	2	09/09/2015 06:28	WG813411
(S) Nitrobenzene-d5	*127*			*33.8-179*		*09/09/2015 06:28*	WG813411
(S) 2-Fluorobiphenyl	*98.3*			*55.5-150*		*09/09/2015 06:28*	WG813411
(S) p-Terphenyl-d14	*77.3*			*46.2-163*		*09/09/2015 06:28*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	09/06/2015 23:10	WG813640
Acrolein	U		0.00887	0.0500	1	09/06/2015 23:10	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 23:10	WG813640
Benzene	U		0.000331	0.00100	1	09/06/2015 23:10	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 23:10	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 23:10	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 23:10	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 23:10	WG813640
n-Butylbenzene	U		0.000361	0.00100	1	09/06/2015 23:10	WG813640
sec-Butylbenzene	U		0.000365	0.00100	1	09/06/2015 23:10	WG813640
tert-Butylbenzene	U		0.000399	0.00100	1	09/06/2015 23:10	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 23:10	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 23:10	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 23:10	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 23:10	WG813640
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	09/06/2015 23:10	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 23:10	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 23:10	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 23:10	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 23:10	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 23:10	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 23:10	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 23:10	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 23:10	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 23:10	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 23:10	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 23:10	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 23:10	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 23:10	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 23:10	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 23:10	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 23:10	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 23:10	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 23:10	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 23:10	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 23:10	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 23:10	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 23:10	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 23:10	WG813640
Ethylbenzene	U		0.000384	0.00100	1	09/06/2015 23:10	WG813640
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	09/06/2015 23:10	WG813640
Isopropylbenzene	U		0.000326	0.00100	1	09/06/2015 23:10	WG813640
p-Isopropyltoluene	U		0.000350	0.00100	1	09/06/2015 23:10	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 23:10	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 23:10	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 23:10	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 23:10	WG813640
Naphthalene	U		0.00100	0.00500	1	09/06/2015 23:10	WG813640
n-Propylbenzene	U		0.000349	0.00100	1	09/06/2015 23:10	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 23:10	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 23:10	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 23:10	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 23:10	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 23:10	WG813640
Toluene	U		0.000780	0.00500	1	09/06/2015 23:10	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 23:10	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 23:10	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 23:10	WG813640
1,1,2-Trichloroethane	U		0.000383	0.00100	1	09/06/2015 23:10	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 23:10	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 23:10	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 23:10	WG813640
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	09/06/2015 23:10	WG813640
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	09/06/2015 23:10	WG813640
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	09/06/2015 23:10	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 23:10	WG813640
Xylenes, Total	U		0.00106	0.00300	1	09/06/2015 23:10	WG813640
(S) Toluene-d8	*106*			*90.0-115*		*09/06/2015 23:10*	WG813640
(S) Dibromofluoromethane	*117*			*79.0-121*		*09/06/2015 23:10*	WG813640
(S) 4-Bromofluorobenzene	*96.0*			*80.1-120*		*09/06/2015 23:10*	WG813640

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0000407	J	0.0000140	0.0000500	1	09/09/2015 06:49	WG813411
Acenaphthene	0.0000128	J	0.0000100	0.0000500	1	09/09/2015 06:49	WG813411
Acenaphthylene	U		0.0000120	0.0000500	1	09/09/2015 06:49	WG813411
Benzo(a)anthracene	0.0000618		0.00000410	0.0000500	1	09/09/2015 06:49	WG813411
Benzo(a)pyrene	0.0000648		0.0000116	0.0000500	1	09/09/2015 06:49	WG813411
Benzo(b)fluoranthene	0.0000738		0.00000212	0.0000500	1	09/09/2015 06:49	WG813411
Benzo(g,h,i)perylene	0.0000914		0.00000227	0.0000500	1	09/09/2015 06:49	WG813411
Benzo(k)fluoranthene	0.0000279	J	0.0000136	0.0000500	1	09/09/2015 06:49	WG813411
Chrysene	0.0000715		0.0000108	0.0000500	1	09/09/2015 06:49	WG813411
Dibenz(a,h)anthracene	0.00000654	J	0.00000396	0.0000500	1	09/09/2015 06:49	WG813411
Fluoranthene	0.0000683		0.0000157	0.0000500	1	09/09/2015 06:49	WG813411
Fluorene	0.0000219	J	0.00000850	0.0000500	1	09/09/2015 06:49	WG813411
Indeno(1,2,3-cd)pyrene	0.0000597		0.0000148	0.0000500	1	09/09/2015 06:49	WG813411
Naphthalene	U		0.0000198	0.000250	1	09/09/2015 06:49	WG813411
Phenanthrene	0.0000487	J	0.00000820	0.0000500	1	09/09/2015 06:49	WG813411
Pyrene	0.000125		0.0000117	0.0000500	1	09/09/2015 06:49	WG813411
1-Methylnaphthalene	0.0000211	J	0.00000821	0.000250	1	09/09/2015 06:49	WG813411
2-Methylnaphthalene	0.0000224	J	0.00000902	0.000250	1	09/09/2015 06:49	WG813411
2-Chloronaphthalene	U		0.00000647	0.000250	1	09/09/2015 06:49	WG813411
(S) Nitrobenzene-d5	*118*			*33.8-179*		*09/09/2015 06:49*	WG813411
(S) 2-Fluorobiphenyl	*98.6*			*55.5-150*		*09/09/2015 06:49*	WG813411
(S) p-Terphenyl-d14	*85.1*			*46.2-163*		*09/09/2015 06:49*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0500	0.250	5	09/10/2015 23:18	WG814521
Acrolein	U		0.0444	0.250	5	09/10/2015 23:18	WG814521
Acrylonitrile	U		0.00935	0.0500	5	09/10/2015 23:18	WG814521
Benzene	0.00273	J	0.00166	0.00500	5	09/10/2015 23:18	WG814521
Bromobenzene	U		0.00176	0.00500	5	09/10/2015 23:18	WG814521
Bromodichloromethane	U		0.00190	0.00500	5	09/10/2015 23:18	WG814521
Bromoform	U		0.00234	0.00500	5	09/10/2015 23:18	WG814521
Bromomethane	U		0.00433	0.0250	5	09/10/2015 23:18	WG814521
n-Butylbenzene	U		0.00180	0.00500	5	09/10/2015 23:18	WG814521
sec-Butylbenzene	U		0.00182	0.00500	5	09/10/2015 23:18	WG814521
tert-Butylbenzene	U		0.00200	0.00500	5	09/10/2015 23:18	WG814521
Carbon tetrachloride	U		0.00190	0.00500	5	09/10/2015 23:18	WG814521
Chlorobenzene	U		0.00174	0.00500	5	09/10/2015 23:18	WG814521
Chlorodibromomethane	U		0.00164	0.00500	5	09/10/2015 23:18	WG814521
Chloroethane	U		0.00226	0.0250	5	09/10/2015 23:18	WG814521
2-Chloroethyl vinyl ether	U		0.0150	0.250	5	09/10/2015 23:18	WG814521
Chloroform	U		0.00162	0.0250	5	09/10/2015 23:18	WG814521
Chloromethane	U		0.00138	0.0125	5	09/10/2015 23:18	WG814521
2-Chlorotoluene	U		0.00188	0.00500	5	09/10/2015 23:18	WG814521
4-Chlorotoluene	U		0.00176	0.00500	5	09/10/2015 23:18	WG814521
1,2-Dibromo-3-Chloropropane	U		0.00665	0.0250	5	09/10/2015 23:18	WG814521
1,2-Dibromoethane	U		0.00190	0.00500	5	09/10/2015 23:18	WG814521
Dibromomethane	U		0.00173	0.00500	5	09/10/2015 23:18	WG814521
1,2-Dichlorobenzene	U		0.00174	0.00500	5	09/10/2015 23:18	WG814521
1,3-Dichlorobenzene	U		0.00110	0.00500	5	09/10/2015 23:18	WG814521
1,4-Dichlorobenzene	U		0.00137	0.00500	5	09/10/2015 23:18	WG814521
Dichlorodifluoromethane	U		0.00276	0.0250	5	09/10/2015 23:18	WG814521
1,1-Dichloroethane	U		0.00130	0.00500	5	09/10/2015 23:18	WG814521
1,2-Dichloroethane	U		0.00180	0.00500	5	09/10/2015 23:18	WG814521
1,1-Dichloroethene	U		0.00199	0.00500	5	09/10/2015 23:18	WG814521
cis-1,2-Dichloroethene	U		0.00130	0.00500	5	09/10/2015 23:18	WG814521
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	09/10/2015 23:18	WG814521
1,2-Dichloropropane	U		0.00153	0.00500	5	09/10/2015 23:18	WG814521
1,1-Dichloropropene	U		0.00176	0.00500	5	09/10/2015 23:18	WG814521
1,3-Dichloropropane	U		0.00183	0.00500	5	09/10/2015 23:18	WG814521
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	09/10/2015 23:18	WG814521
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	09/10/2015 23:18	WG814521
2,2-Dichloropropane	U		0.00160	0.00500	5	09/10/2015 23:18	WG814521
Di-isopropyl ether	U		0.00160	0.00500	5	09/10/2015 23:18	WG814521
Ethylbenzene	0.00606		0.00192	0.00500	5	09/10/2015 23:18	WG814521
Hexachloro-1,3-butadiene	U		0.00128	0.00500	5	09/10/2015 23:18	WG814521
Isopropylbenzene	0.00307	J	0.00163	0.00500	5	09/10/2015 23:18	WG814521
p-Isopropyltoluene	U		0.00175	0.00500	5	09/10/2015 23:18	WG814521
2-Butanone (MEK)	U		0.0196	0.0500	5	09/10/2015 23:18	WG814521
Methylene Chloride	U		0.00500	0.0250	5	09/10/2015 23:18	WG814521
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	09/10/2015 23:18	WG814521
Methyl tert-butyl ether	0.00236	J	0.00184	0.00500	5	09/10/2015 23:18	WG814521
Naphthalene	0.187		0.00500	0.0250	5	09/12/2015 14:49	WG814856
n-Propylbenzene	0.00249	J	0.00174	0.00500	5	09/10/2015 23:18	WG814521
Styrene	U		0.00154	0.00500	5	09/10/2015 23:18	WG814521
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	09/10/2015 23:18	WG814521
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	09/10/2015 23:18	WG814521
1,1,2-Trichlorotrifluoroethane	U		0.00152	0.00500	5	09/10/2015 23:18	WG814521
Tetrachloroethene	U		0.00186	0.00500	5	09/10/2015 23:18	WG814521
Toluene	U		0.00390	0.0250	5	09/10/2015 23:18	WG814521
1,2,3-Trichlorobenzene	U		0.00115	0.00500	5	09/10/2015 23:18	WG814521

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.00178	0.00500	5	09/10/2015 23:18	WG814521
1,1,1-Trichloroethane	U		0.00160	0.00500	5	09/10/2015 23:18	WG814521
1,1,2-Trichloroethane	U		0.00192	0.00500	5	09/10/2015 23:18	WG814521
Trichloroethene	U		0.00199	0.00500	5	09/10/2015 23:18	WG814521
Trichlorofluoromethane	U		0.00600	0.0250	5	09/10/2015 23:18	WG814521
1,2,3-Trichloropropane	U		0.00404	0.0125	5	09/10/2015 23:18	WG814521
1,2,4-Trimethylbenzene	0.0271		0.00186	0.00500	5	09/10/2015 23:18	WG814521
1,2,3-Trimethylbenzene	0.0118		0.00160	0.00500	5	09/10/2015 23:18	WG814521
1,3,5-Trimethylbenzene	0.0113		0.00194	0.00500	5	09/10/2015 23:18	WG814521
Vinyl chloride	U		0.00130	0.00500	5	09/10/2015 23:18	WG814521
Xylenes, Total	0.0179		0.00530	0.0150	5	09/10/2015 23:18	WG814521
(S) Toluene-d8	*101*			*90.0-115*		*09/10/2015 23:18*	WG814521
(S) Dibromofluoromethane	*102*			*79.0-121*		*09/10/2015 23:18*	WG814521
(S) 4-Bromofluorobenzene	*98.2*			*80.1-120*		*09/10/2015 23:18*	WG814521

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0840		0.0000700	0.000250	5	09/09/2015 10:50	WG813411
Acenaphthene	0.0512		0.0000500	0.000250	5	09/09/2015 10:50	WG813411
Acenaphthylene	0.0499		0.0000600	0.000250	5	09/09/2015 10:50	WG813411
Benzo(a)anthracene	0.0380		0.0000205	0.000250	5	09/09/2015 10:50	WG813411
Benzo(a)pyrene	0.0221		0.0000580	0.000250	5	09/09/2015 10:50	WG813411
Benzo(b)fluoranthene	U		0.0000106	0.000250	5	09/09/2015 10:50	WG813411
Benzo(g,h,i)perylene	0.00832		0.0000114	0.000250	5	09/09/2015 10:50	WG813411
Benzo(k)fluoranthene	U		0.0000680	0.000250	5	09/09/2015 10:50	WG813411
Chrysene	0.0297		0.0000540	0.000250	5	09/09/2015 10:50	WG813411
Dibenz(a,h)anthracene	0.00267		0.0000198	0.000250	5	09/09/2015 10:50	WG813411
Fluoranthene	0.141		0.0000785	0.000250	5	09/09/2015 10:50	WG813411
Fluorene	0.0588		0.0000425	0.000250	5	09/09/2015 10:50	WG813411
Indeno(1,2,3-cd)pyrene	0.00692		0.0000740	0.000250	5	09/09/2015 10:50	WG813411
Naphthalene	0.140		0.0000990	0.00125	5	09/09/2015 10:50	WG813411
Phenanthrene	0.265		0.0000410	0.000250	5	09/09/2015 10:50	WG813411
Pyrene	0.160		0.0000585	0.000250	5	09/09/2015 10:50	WG813411
1-Methylnaphthalene	0.105		0.0000410	0.00125	5	09/09/2015 10:50	WG813411
2-Methylnaphthalene	0.0791		0.0000451	0.00125	5	09/09/2015 10:50	WG813411
2-Chloronaphthalene	U		0.0000324	0.00125	5	09/09/2015 10:50	WG813411
(S) Nitrobenzene-d5	*172*			*33.8-179*		*09/09/2015 10:50*	WG813411
(S) 2-Fluorobiphenyl	*108*			*55.5-150*		*09/09/2015 10:50*	WG813411
(S) p-Terphenyl-d14	*72.2*			*46.2-163*		*09/09/2015 10:50*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	09/06/2015 23:50	WG813640
Acrolein	U		0.00887	0.0500	1	09/06/2015 23:50	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 23:50	WG813640
Benzene	U		0.000331	0.00100	1	09/06/2015 23:50	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 23:50	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 23:50	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 23:50	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 23:50	WG813640
n-Butylbenzene	U		0.000361	0.00100	1	09/06/2015 23:50	WG813640
sec-Butylbenzene	U		0.000365	0.00100	1	09/06/2015 23:50	WG813640
tert-Butylbenzene	U		0.000399	0.00100	1	09/06/2015 23:50	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 23:50	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 23:50	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 23:50	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 23:50	WG813640
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	09/06/2015 23:50	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 23:50	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 23:50	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 23:50	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 23:50	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 23:50	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 23:50	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 23:50	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 23:50	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 23:50	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 23:50	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 23:50	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 23:50	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 23:50	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 23:50	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 23:50	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 23:50	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 23:50	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 23:50	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 23:50	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 23:50	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 23:50	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 23:50	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 23:50	WG813640
Ethylbenzene	U		0.000384	0.00100	1	09/06/2015 23:50	WG813640
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	09/06/2015 23:50	WG813640
Isopropylbenzene	0.000392	J	0.000326	0.00100	1	09/06/2015 23:50	WG813640
p-Isopropyltoluene	U		0.000350	0.00100	1	09/06/2015 23:50	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 23:50	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 23:50	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 23:50	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 23:50	WG813640
Naphthalene	0.0387		0.00100	0.00500	1	09/06/2015 23:50	WG813640
n-Propylbenzene	0.000375	J	0.000349	0.00100	1	09/06/2015 23:50	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 23:50	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 23:50	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 23:50	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 23:50	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 23:50	WG813640
Toluene	U		0.000780	0.00500	1	09/06/2015 23:50	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 23:50	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 23:50	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 23:50	WG813640
1,1,2-Trichloroethane	U		0.000383	0.00100	1	09/06/2015 23:50	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 23:50	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 23:50	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 23:50	WG813640
1,2,4-Trimethylbenzene	0.00254		0.000373	0.00100	1	09/06/2015 23:50	WG813640
1,2,3-Trimethylbenzene	0.000992	J	0.000321	0.00100	1	09/06/2015 23:50	WG813640
1,3,5-Trimethylbenzene	0.00132		0.000387	0.00100	1	09/06/2015 23:50	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 23:50	WG813640
Xylenes, Total	U		0.00106	0.00300	1	09/06/2015 23:50	WG813640
(S) Toluene-d8	*104*			*90.0-115*		*09/06/2015 23:50*	WG813640
(S) Dibromofluoromethane	*113*			*79.0-121*		*09/06/2015 23:50*	WG813640
(S) 4-Bromofluorobenzene	*100*			*80.1-120*		*09/06/2015 23:50*	WG813640

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0122		0.0000140	0.0000500	1	09/09/2015 07:11	WG813411
Acenaphthene	0.0902		0.0000100	0.0000500	1	09/09/2015 07:11	WG813411
Acenaphthylene	0.0208		0.0000120	0.0000500	1	09/09/2015 07:11	WG813411
Benzo(a)anthracene	0.00211		0.00000410	0.0000500	1	09/09/2015 07:11	WG813411
Benzo(a)pyrene	0.00189		0.0000116	0.0000500	1	09/09/2015 07:11	WG813411
Benzo(b)fluoranthene	0.00130		0.00000212	0.0000500	1	09/09/2015 07:11	WG813411
Benzo(g,h,i)perylene	0.00116		0.00000227	0.0000500	1	09/09/2015 07:11	WG813411
Benzo(k)fluoranthene	0.000411		0.0000136	0.0000500	1	09/09/2015 07:11	WG813411
Chrysene	0.00189		0.0000108	0.0000500	1	09/09/2015 07:11	WG813411
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	09/09/2015 07:11	WG813411
Fluoranthene	0.00633		0.0000157	0.0000500	1	09/09/2015 07:11	WG813411
Fluorene	0.0232		0.00000850	0.0000500	1	09/09/2015 07:11	WG813411
Indeno(1,2,3-cd)pyrene	0.000780		0.0000148	0.0000500	1	09/09/2015 07:11	WG813411
Naphthalene	0.0244		0.0000198	0.000250	1	09/09/2015 07:11	WG813411
Phenanthrene	0.0381		0.00000820	0.0000500	1	09/09/2015 07:11	WG813411
Pyrene	0.00774		0.0000117	0.0000500	1	09/09/2015 07:11	WG813411
1-Methylnaphthalene	0.133		0.000164	0.00500	20	09/10/2015 03:57	WG813411
2-Methylnaphthalene	0.0310		0.00000902	0.000250	1	09/09/2015 07:11	WG813411
2-Chloronaphthalene	U		0.00000647	0.000250	1	09/09/2015 07:11	WG813411
(S) Nitrobenzene-d5	*117*			*33.8-179*		*09/09/2015 07:11*	WG813411
(S) 2-Fluorobiphenyl	*104*			*55.5-150*		*09/09/2015 07:11*	WG813411
(S) p-Terphenyl-d14	*87.4*			*46.2-163*		*09/09/2015 07:11*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0500	0.250	5	09/10/2015 23:39	WG814521
Acrolein	U		0.0444	0.250	5	09/10/2015 23:39	WG814521
Acrylonitrile	U		0.00935	0.0500	5	09/10/2015 23:39	WG814521
Benzene	0.0204		0.00166	0.00500	5	09/10/2015 23:39	WG814521
Bromobenzene	U		0.00176	0.00500	5	09/10/2015 23:39	WG814521
Bromodichloromethane	U		0.00190	0.00500	5	09/10/2015 23:39	WG814521
Bromoform	U		0.00234	0.00500	5	09/10/2015 23:39	WG814521
Bromomethane	U		0.00433	0.0250	5	09/10/2015 23:39	WG814521
n-Butylbenzene	0.00219	J	0.00180	0.00500	5	09/10/2015 23:39	WG814521
sec-Butylbenzene	U		0.00182	0.00500	5	09/10/2015 23:39	WG814521
tert-Butylbenzene	U		0.00200	0.00500	5	09/10/2015 23:39	WG814521
Carbon tetrachloride	U		0.00190	0.00500	5	09/10/2015 23:39	WG814521
Chlorobenzene	U		0.00174	0.00500	5	09/10/2015 23:39	WG814521
Chlorodibromomethane	U		0.00164	0.00500	5	09/10/2015 23:39	WG814521
Chloroethane	U		0.00226	0.0250	5	09/10/2015 23:39	WG814521
2-Chloroethyl vinyl ether	U		0.0150	0.250	5	09/10/2015 23:39	WG814521
Chloroform	U		0.00162	0.0250	5	09/10/2015 23:39	WG814521
Chloromethane	U		0.00138	0.0125	5	09/10/2015 23:39	WG814521
2-Chlorotoluene	U		0.00188	0.00500	5	09/10/2015 23:39	WG814521
4-Chlorotoluene	U		0.00176	0.00500	5	09/10/2015 23:39	WG814521
1,2-Dibromo-3-Chloropropane	U		0.00665	0.0250	5	09/10/2015 23:39	WG814521
1,2-Dibromoethane	U		0.00190	0.00500	5	09/10/2015 23:39	WG814521
Dibromomethane	U		0.00173	0.00500	5	09/10/2015 23:39	WG814521
1,2-Dichlorobenzene	U		0.00174	0.00500	5	09/10/2015 23:39	WG814521
1,3-Dichlorobenzene	U		0.00110	0.00500	5	09/10/2015 23:39	WG814521
1,4-Dichlorobenzene	U		0.00137	0.00500	5	09/10/2015 23:39	WG814521
Dichlorodifluoromethane	U		0.00276	0.0250	5	09/10/2015 23:39	WG814521
1,1-Dichloroethane	U		0.00130	0.00500	5	09/10/2015 23:39	WG814521
1,2-Dichloroethane	U		0.00180	0.00500	5	09/10/2015 23:39	WG814521
1,1-Dichloroethene	U		0.00199	0.00500	5	09/10/2015 23:39	WG814521
cis-1,2-Dichloroethene	U		0.00130	0.00500	5	09/10/2015 23:39	WG814521
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	09/10/2015 23:39	WG814521
1,2-Dichloropropane	U		0.00153	0.00500	5	09/10/2015 23:39	WG814521
1,1-Dichloropropene	U		0.00176	0.00500	5	09/10/2015 23:39	WG814521
1,3-Dichloropropane	U		0.00183	0.00500	5	09/10/2015 23:39	WG814521
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	09/10/2015 23:39	WG814521
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	09/10/2015 23:39	WG814521
2,2-Dichloropropane	U		0.00160	0.00500	5	09/10/2015 23:39	WG814521
Di-isopropyl ether	U		0.00160	0.00500	5	09/10/2015 23:39	WG814521
Ethylbenzene	0.299		0.00192	0.00500	5	09/10/2015 23:39	WG814521
Hexachloro-1,3-butadiene	U		0.00128	0.00500	5	09/10/2015 23:39	WG814521
Isopropylbenzene	0.0520		0.00163	0.00500	5	09/10/2015 23:39	WG814521
p-Isopropyltoluene	0.00416	J	0.00175	0.00500	5	09/10/2015 23:39	WG814521
2-Butanone (MEK)	U		0.0196	0.0500	5	09/10/2015 23:39	WG814521
Methylene Chloride	U		0.00500	0.0250	5	09/10/2015 23:39	WG814521
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	09/10/2015 23:39	WG814521
Methyl tert-butyl ether	U		0.00184	0.00500	5	09/10/2015 23:39	WG814521
Naphthalene	3.38		0.100	0.500	100	09/12/2015 15:09	WG814856
n-Propylbenzene	0.0151		0.00174	0.00500	5	09/10/2015 23:39	WG814521
Styrene	U		0.00154	0.00500	5	09/10/2015 23:39	WG814521
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	09/10/2015 23:39	WG814521
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	09/10/2015 23:39	WG814521
1,1,2-Trichlorotrifluoroethane	U		0.00152	0.00500	5	09/10/2015 23:39	WG814521
Tetrachloroethene	U		0.00186	0.00500	5	09/10/2015 23:39	WG814521
Toluene	0.0227	J	0.00390	0.0250	5	09/10/2015 23:39	WG814521
1,2,3-Trichlorobenzene	U		0.00115	0.00500	5	09/10/2015 23:39	WG814521

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.00178	0.00500	5	09/10/2015 23:39	WG814521
1,1,1-Trichloroethane	U		0.00160	0.00500	5	09/10/2015 23:39	WG814521
1,1,2-Trichloroethane	U		0.00192	0.00500	5	09/10/2015 23:39	WG814521
Trichloroethene	U		0.00199	0.00500	5	09/10/2015 23:39	WG814521
Trichlorofluoromethane	U		0.00600	0.0250	5	09/10/2015 23:39	WG814521
1,2,3-Trichloropropane	U		0.00404	0.0125	5	09/10/2015 23:39	WG814521
1,2,4-Trimethylbenzene	0.224		0.00186	0.00500	5	09/10/2015 23:39	WG814521
1,2,3-Trimethylbenzene	0.0713		0.00160	0.00500	5	09/10/2015 23:39	WG814521
1,3,5-Trimethylbenzene	0.0603		0.00194	0.00500	5	09/10/2015 23:39	WG814521
Vinyl chloride	U		0.00130	0.00500	5	09/10/2015 23:39	WG814521
Xylenes, Total	0.274		0.00530	0.0150	5	09/10/2015 23:39	WG814521
(S) Toluene-d8	*101*			*90.0-115*		*09/10/2015 23:39*	WG814521
(S) Dibromofluoromethane	*98.5*			*79.0-121*		*09/10/2015 23:39*	WG814521
(S) 4-Bromofluorobenzene	*96.5*			*80.1-120*		*09/10/2015 23:39*	WG814521

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0167		0.0000140	0.0000500	1	09/09/2015 07:33	WG813411
Acenaphthene	0.504		0.00100	0.00500	100	09/14/2015 11:00	WG813411
Acenaphthylene	0.213		0.00120	0.00500	100	09/14/2015 11:00	WG813411
Benzo(a)anthracene	0.0000567		0.00000410	0.0000500	1	09/09/2015 07:33	WG813411
Benzo(a)pyrene	U		0.0000116	0.0000500	1	09/09/2015 07:33	WG813411
Benzo(b)fluoranthene	0.00000264	J	0.00000212	0.0000500	1	09/09/2015 07:33	WG813411
Benzo(g,h,i)perylene	U		0.00000227	0.0000500	1	09/09/2015 07:33	WG813411
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	09/09/2015 07:33	WG813411
Chrysene	0.0000333	J	0.0000108	0.0000500	1	09/09/2015 07:33	WG813411
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	09/09/2015 07:33	WG813411
Fluoranthene	0.00414		0.0000157	0.0000500	1	09/09/2015 07:33	WG813411
Fluorene	0.0828		0.000850	0.00500	100	09/14/2015 11:00	WG813411
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	09/09/2015 07:33	WG813411
Naphthalene	6.15		0.00198	0.0250	100	09/14/2015 11:00	WG813411
Phenanthrene	0.0981		0.00000820	0.0000500	1	09/09/2015 07:33	WG813411
Pyrene	0.00417		0.0000117	0.0000500	1	09/09/2015 07:33	WG813411
1-Methylnaphthalene	1.94		0.000821	0.0250	100	09/14/2015 11:00	WG813411
2-Methylnaphthalene	0.833		0.000902	0.0250	100	09/14/2015 11:00	WG813411
2-Chloronaphthalene	U		0.000647	0.0250	100	09/14/2015 11:00	WG813411
(S) Nitrobenzene-d5	*283*	J7		*33.8-179*		*09/14/2015 11:00*	WG813411
(S) 2-Fluorobiphenyl	*217*	J7		*55.5-150*		*09/14/2015 11:00*	WG813411
(S) p-Terphenyl-d14	*89.8*			*46.2-163*		*09/09/2015 07:33*	WG813411

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	09/06/2015 18:31	WG813640
Acrolein	U		0.00887	0.0500	1	09/06/2015 18:31	WG813640
Acrylonitrile	U		0.00187	0.0100	1	09/06/2015 18:31	WG813640
Benzene	U		0.000331	0.00100	1	09/06/2015 18:31	WG813640
Bromobenzene	U		0.000352	0.00100	1	09/06/2015 18:31	WG813640
Bromodichloromethane	U		0.000380	0.00100	1	09/06/2015 18:31	WG813640
Bromoform	U		0.000469	0.00100	1	09/06/2015 18:31	WG813640
Bromomethane	U		0.000866	0.00500	1	09/06/2015 18:31	WG813640
n-Butylbenzene	U		0.000361	0.00100	1	09/06/2015 18:31	WG813640
sec-Butylbenzene	U		0.000365	0.00100	1	09/06/2015 18:31	WG813640
tert-Butylbenzene	U		0.000399	0.00100	1	09/06/2015 18:31	WG813640
Carbon tetrachloride	U		0.000379	0.00100	1	09/06/2015 18:31	WG813640
Chlorobenzene	U		0.000348	0.00100	1	09/06/2015 18:31	WG813640
Chlorodibromomethane	U		0.000327	0.00100	1	09/06/2015 18:31	WG813640
Chloroethane	U		0.000453	0.00500	1	09/06/2015 18:31	WG813640
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	09/06/2015 18:31	WG813640
Chloroform	U		0.000324	0.00500	1	09/06/2015 18:31	WG813640
Chloromethane	U		0.000276	0.00250	1	09/06/2015 18:31	WG813640
2-Chlorotoluene	U		0.000375	0.00100	1	09/06/2015 18:31	WG813640
4-Chlorotoluene	U		0.000351	0.00100	1	09/06/2015 18:31	WG813640
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	09/06/2015 18:31	WG813640
1,2-Dibromoethane	U		0.000381	0.00100	1	09/06/2015 18:31	WG813640
Dibromomethane	U		0.000346	0.00100	1	09/06/2015 18:31	WG813640
1,2-Dichlorobenzene	U		0.000349	0.00100	1	09/06/2015 18:31	WG813640
1,3-Dichlorobenzene	U		0.000220	0.00100	1	09/06/2015 18:31	WG813640
1,4-Dichlorobenzene	U		0.000274	0.00100	1	09/06/2015 18:31	WG813640
Dichlorodifluoromethane	U		0.000551	0.00500	1	09/06/2015 18:31	WG813640
1,1-Dichloroethane	U		0.000259	0.00100	1	09/06/2015 18:31	WG813640
1,2-Dichloroethane	U		0.000361	0.00100	1	09/06/2015 18:31	WG813640
1,1-Dichloroethene	U		0.000398	0.00100	1	09/06/2015 18:31	WG813640
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	09/06/2015 18:31	WG813640
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	09/06/2015 18:31	WG813640
1,2-Dichloropropane	U		0.000306	0.00100	1	09/06/2015 18:31	WG813640
1,1-Dichloropropene	U		0.000352	0.00100	1	09/06/2015 18:31	WG813640
1,3-Dichloropropane	U		0.000366	0.00100	1	09/06/2015 18:31	WG813640
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	09/06/2015 18:31	WG813640
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	09/06/2015 18:31	WG813640
2,2-Dichloropropane	U		0.000321	0.00100	1	09/06/2015 18:31	WG813640
Di-isopropyl ether	U		0.000320	0.00100	1	09/06/2015 18:31	WG813640
Ethylbenzene	U		0.000384	0.00100	1	09/06/2015 18:31	WG813640
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	09/06/2015 18:31	WG813640
Isopropylbenzene	U		0.000326	0.00100	1	09/06/2015 18:31	WG813640
p-Isopropyltoluene	U		0.000350	0.00100	1	09/06/2015 18:31	WG813640
2-Butanone (MEK)	U		0.00393	0.0100	1	09/06/2015 18:31	WG813640
Methylene Chloride	U		0.00100	0.00500	1	09/06/2015 18:31	WG813640
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	09/06/2015 18:31	WG813640
Methyl tert-butyl ether	U		0.000367	0.00100	1	09/06/2015 18:31	WG813640
Naphthalene	0.00124	J	0.00100	0.00500	1	09/06/2015 18:31	WG813640
n-Propylbenzene	U		0.000349	0.00100	1	09/06/2015 18:31	WG813640
Styrene	U		0.000307	0.00100	1	09/06/2015 18:31	WG813640
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	09/06/2015 18:31	WG813640
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	09/06/2015 18:31	WG813640
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	09/06/2015 18:31	WG813640
Tetrachloroethene	U		0.000372	0.00100	1	09/06/2015 18:31	WG813640
Toluene	U		0.000780	0.00500	1	09/06/2015 18:31	WG813640
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	09/06/2015 18:31	WG813640

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	09/06/2015 18:31	WG813640
1,1,1-Trichloroethane	U		0.000319	0.00100	1	09/06/2015 18:31	WG813640
1,1,2-Trichloroethane	U		0.000383	0.00100	1	09/06/2015 18:31	WG813640
Trichloroethene	U		0.000398	0.00100	1	09/06/2015 18:31	WG813640
Trichlorofluoromethane	U		0.00120	0.00500	1	09/06/2015 18:31	WG813640
1,2,3-Trichloropropane	U		0.000807	0.00250	1	09/06/2015 18:31	WG813640
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	09/06/2015 18:31	WG813640
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	09/06/2015 18:31	WG813640
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	09/06/2015 18:31	WG813640
Vinyl chloride	U		0.000259	0.00100	1	09/06/2015 18:31	WG813640
Xylenes, Total	U		0.00106	0.00300	1	09/06/2015 18:31	WG813640
(S) Toluene-d8	*104*			*90.0-115*		*09/06/2015 18:31*	WG813640
(S) Dibromofluoromethane	*100*			*79.0-121*		*09/06/2015 18:31*	WG813640
(S) 4-Bromofluorobenzene	*101*			*80.1-120*		*09/06/2015 18:31*	WG813640

Method Blank (MB)

(MB) 09/06/15 15:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100

Method Blank (MB)

(MB) 09/06/15 15:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*102*			*90.0-115*
(S) Dibromofluoromethane	*97.0*			*79.0-121*
(S) 4-Bromofluorobenzene	*101*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/06/15 14:09 • (LCSD) 09/06/15 14:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0765	0.0574	61.2	45.9	28.7-175		J3	28.6	20.9
Acrolein	0.125	0.0971	0.0816	77.7	65.3	40.4-172			17.3	20
Acrylonitrile	0.125	0.140	0.124	112	99.5	58.2-145			11.6	20
Benzene	0.0250	0.0253	0.0256	101	102	73.0-122			1.26	20
Bromobenzene	0.0250	0.0278	0.0280	111	112	81.5-115			0.770	20
Bromodichloromethane	0.0250	0.0254	0.0261	101	104	75.5-121			2.87	20
Bromoform	0.0250	0.0306	0.0307	122	123	71.5-131			0.400	20
Bromomethane	0.0250	0.0240	0.0245	96.2	98.0	22.4-187			1.89	20
n-Butylbenzene	0.0250	0.0273	0.0266	109	106	75.9-134			2.49	20
sec-Butylbenzene	0.0250	0.0296	0.0284	118	114	80.6-126			4.01	20
tert-Butylbenzene	0.0250	0.0298	0.0293	119	117	79.3-127			1.41	20
Carbon tetrachloride	0.0250	0.0252	0.0255	101	102	70.9-129			1.15	20
Chlorobenzene	0.0250	0.0295	0.0302	118	121	79.7-122			2.29	20
Chlorodibromomethane	0.0250	0.0295	0.0307	118	123	78.2-124			3.90	20
Chloroethane	0.0250	0.0233	0.0233	93.2	93.4	41.2-153			0.250	20
2-Chloroethyl vinyl ether	0.125	0.138	0.139	111	112	23.4-162			0.810	23.5
Chloroform	0.0250	0.0238	0.0238	95.2	95.3	73.2-125			0.0900	20
Chloromethane	0.0250	0.0246	0.0240	98.5	96.1	55.8-134			2.52	20
2-Chlorotoluene	0.0250	0.0293	0.0293	117	117	76.4-125			0.0800	20
4-Chlorotoluene	0.0250	0.0279	0.0281	112	113	81.5-121			0.880	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0261	0.0264	105	105	64.8-131			0.860	20
1,2-Dibromoethane	0.0250	0.0287	0.0292	115	117	79.8-122			1.80	20
Dibromomethane	0.0250	0.0279	0.0279	111	112	79.5-118			0.160	20
1,2-Dichlorobenzene	0.0250	0.0271	0.0275	109	110	84.7-118			1.37	20
1,3-Dichlorobenzene	0.0250	0.0300	0.0300	120	120	77.6-127			0.220	20
1,4-Dichlorobenzene	0.0250	0.0273	0.0278	109	111	82.2-114			1.71	20
Dichlorodifluoromethane	0.0250	0.0238	0.0235	95.2	93.9	56.0-134			1.32	20
1,1-Dichloroethane	0.0250	0.0248	0.0252	99.2	101	71.7-127			1.78	20
1,2-Dichloroethane	0.0250	0.0227	0.0228	91.0	91.1	65.3-126			0.110	20
1,1-Dichloroethene	0.0250	0.0256	0.0258	102	103	59.9-137			0.790	20
cis-1,2-Dichloroethene	0.0250	0.0250	0.0250	100	100	77.3-122			0.140	20
trans-1,2-Dichloroethene	0.0250	0.0260	0.0259	104	103	72.6-125			0.400	20
1,2-Dichloropropane	0.0250	0.0281	0.0289	112	116	77.4-125			2.85	20
1,1-Dichloropropene	0.0250	0.0249	0.0250	99.5	100	72.5-127			0.490	20
1,3-Dichloropropane	0.0250	0.0276	0.0282	110	113	80.6-115			2.26	20
cis-1,3-Dichloropropene	0.0250	0.0275	0.0277	110	111	77.7-124			0.670	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/06/15 14:09 • (LCSD) 09/06/15 14:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0279	0.0279	112	111	73.5-127			0.270	20
2,2-Dichloropropane	0.0250	0.0216	0.0227	86.3	90.7	61.3-134			4.97	20
Di-isopropyl ether	0.0250	0.0244	0.0243	97.5	97.4	65.1-135			0.120	20
Ethylbenzene	0.0250	0.0284	0.0290	113	116	80.9-121			2.38	20
Hexachloro-1,3-butadiene	0.0250	0.0281	0.0248	112	99.1	73.7-133			12.6	20
Isopropylbenzene	0.0250	0.0289	0.0292	115	117	81.6-124			1.12	20
p-Isopropyltoluene	0.0250	0.0299	0.0290	120	116	77.6-129			3.08	20
2-Butanone (MEK)	0.125	0.121	0.107	96.8	85.5	46.4-155			12.4	20
Methylene Chloride	0.0250	0.0254	0.0255	102	102	69.5-120			0.190	20
4-Methyl-2-pentanone (MIBK)	0.125	0.136	0.134	109	107	63.3-138			1.29	20
Methyl tert-butyl ether	0.0250	0.0240	0.0235	96.0	94.1	70.1-125			2.01	20
Naphthalene	0.0250	0.0272	0.0270	109	108	69.7-134			0.740	20
n-Propylbenzene	0.0250	0.0288	0.0287	115	115	81.9-122			0.550	20
Styrene	0.0250	0.0287	0.0290	115	116	79.9-124			0.980	20
1,1,1,2-Tetrachloroethane	0.0250	0.0284	0.0288	114	115	78.5-125			1.49	20
1,1,2,2-Tetrachloroethane	0.0250	0.0295	0.0292	118	117	79.3-123			1.25	20
Tetrachloroethene	0.0250	0.0297	0.0307	119	123	73.5-130			3.35	20
Toluene	0.0250	0.0277	0.0286	111	114	77.9-116			3.12	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0264	0.0270	105	108	62.0-141			2.25	20
1,2,3-Trichlorobenzene	0.0250	0.0294	0.0290	118	116	75.7-134			1.46	20
1,2,4-Trichlorobenzene	0.0250	0.0287	0.0285	115	114	76.1-136			0.700	20
1,1,1-Trichloroethane	0.0250	0.0237	0.0238	94.9	95.2	71.1-129			0.290	20
1,1,2-Trichloroethane	0.0250	0.0287	0.0289	115	115	81.6-120			0.720	20
Trichloroethene	0.0250	0.0286	0.0289	115	116	79.5-121			0.930	20
Trichlorofluoromethane	0.0250	0.0263	0.0270	105	108	49.1-157			2.68	20
1,2,3-Trichloropropane	0.0250	0.0295	0.0290	118	116	74.9-124			1.77	20
1,2,3-Trimethylbenzene	0.0250	0.0266	0.0261	106	104	79.9-118			2.04	20
1,2,4-Trimethylbenzene	0.0250	0.0288	0.0281	115	113	79.0-122			2.29	20
1,3,5-Trimethylbenzene	0.0250	0.0292	0.0286	117	114	81.0-123			2.00	20
Vinyl chloride	0.0250	0.0245	0.0245	98.0	98.1	61.5-134			0.0300	20
Xylenes, Total	0.0750	0.0865	0.0881	115	117	79.2-122			1.83	20
(S) Toluene-d8				*102*	*103*	*90.0-115*				
(S) Dibromofluoromethane				*91.3*	*88.4*	*79.0-121*				
(S) 4-Bromofluorobenzene				*98.8*	*97.1*	*80.1-120*				

L786630-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/06/15 18:51 • (MS) 09/06/15 16:44 • (MSD) 09/06/15 17:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00127	0.0522	0.0504	40.7	39.3	1	25.0-156			3.58	21.5
Acrolein	0.125	ND	0.459	0.466	367	372	1	34.0-194	J5	J5	1.39	21.5
Acrylonitrile	0.125	ND	0.132	0.140	106	112	1	55.9-161			5.79	20
Benzene	0.0250	0.0190	0.0379	0.0398	75.9	83.4	1	58.6-133			4.83	20
Bromobenzene	0.0250	ND	0.0257	0.0237	103	94.8	1	70.6-125			7.90	20
Bromodichloromethane	0.0250	ND	0.0244	0.0241	97.5	96.3	1	69.2-127			1.26	20
Bromoform	0.0250	ND	0.0297	0.0286	119	114	1	66.3-140			3.85	20
Bromomethane	0.0250	ND	0.0218	0.0208	87.3	83.2	1	16.6-183			4.78	20.5
n-Butylbenzene	0.0250	0.000621	0.0239	0.0204	93.3	79.1	1	64.8-145			16.0	20
sec-Butylbenzene	0.0250	ND	0.0252	0.0192	101	76.7	1	66.8-139		J3	27.3	20
tert-Butylbenzene	0.0250	ND	0.0254	0.0201	102	80.5	1	67.1-138		J3	23.4	20
Carbon tetrachloride	0.0250	ND	0.0240	0.0237	96.0	95.0	1	60.6-139			1.04	20
Chlorobenzene	0.0250	ND	0.0275	0.0258	110	103	1	70.1-130			6.06	20
Chlorodibromomethane	0.0250	ND	0.0280	0.0274	112	110	1	71.6-132			2.18	20
Chloroethane	0.0250	ND	0.0215	0.0204	85.9	81.6	1	33.3-155			5.15	20
2-Chloroethyl vinyl ether	0.125	ND	0.000347	0.000374	0.277	0.299	1	5.00-149	J6	J6	7.52	40
Chloroform	0.0250	ND	0.0233	0.0230	93.1	92.1	1	66.1-133			1.14	20
Chloromethane	0.0250	ND	0.0211	0.0203	84.3	81.2	1	40.7-139			3.83	20
2-Chlorotoluene	0.0250	ND	0.0265	0.0237	106	94.9	1	66.9-134			11.1	20
4-Chlorotoluene	0.0250	ND	0.0247	0.0221	99.0	88.3	1	66.8-134			11.4	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0277	0.0301	111	120	1	63.9-142			8.20	20.2
1,2-Dibromoethane	0.0250	ND	0.0274	0.0266	110	106	1	73.8-131			3.09	20
Dibromomethane	0.0250	ND	0.0263	0.0255	105	102	1	72.8-127			3.29	20
1,2-Dichlorobenzene	0.0250	ND	0.0256	0.0244	102	97.7	1	77.4-127			4.76	20
1,3-Dichlorobenzene	0.0250	ND	0.0270	0.0230	108	92.1	1	67.9-136			15.9	20
1,4-Dichlorobenzene	0.0250	ND	0.0255	0.0251	102	101	1	74.4-123			1.22	20
Dichlorodifluoromethane	0.0250	ND	0.0211	0.0205	84.3	81.9	1	42.2-146			2.98	20
1,1-Dichloroethane	0.0250	ND	0.0243	0.0238	97.3	95.3	1	64.0-134			2.13	20
1,2-Dichloroethane	0.0250	ND	0.0227	0.0220	90.6	88.1	1	60.7-132			2.81	20
1,1-Dichloroethene	0.0250	ND	0.0236	0.0231	94.4	92.5	1	48.8-144			2.04	20
cis-1,2-Dichloroethene	0.0250	ND	0.0238	0.0240	95.3	96.0	1	60.6-136			0.780	20
trans-1,2-Dichloroethene	0.0250	ND	0.0240	0.0236	96.1	94.4	1	61.0-132			1.70	20
1,2-Dichloropropane	0.0250	ND	0.0267	0.0258	107	103	1	69.7-130			3.24	20
1,1-Dichloropropene	0.0250	ND	0.0233	0.0233	93.2	93.4	1	61.5-136			0.180	20
1,3-Dichloropropane	0.0250	ND	0.0266	0.0261	106	104	1	74.3-123			1.97	20
cis-1,3-Dichloropropene	0.0250	ND	0.0249	0.0247	99.7	99.0	1	71.1-129			0.740	20

L786630-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/06/15 18:51 • (MS) 09/06/15 16:44 • (MSD) 09/06/15 17:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0262	0.0261	105	105	1	66.3-136			0.0200	20
2,2-Dichloropropane	0.0250	ND	0.0212	0.0207	85.0	82.8	1	54.9-142			2.68	20
Di-isopropyl ether	0.0250	ND	0.0242	0.0240	96.6	96.1	1	59.9-140			0.600	20
Ethylbenzene	0.0250	0.0391	0.0574	0.0584	73.0	77.3	1	62.7-136			1.86	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0222	0.0178	88.7	71.2	1	61.1-144		J3	21.9	20.1
Isopropylbenzene	0.0250	0.0133	0.0361	0.0329	91.2	78.4	1	67.4-136			9.23	20
p-Isopropyltoluene	0.0250	ND	0.0264	0.0202	106	80.6	1	62.8-143		J3	27.0	20
2-Butanone (MEK)	0.125	ND	0.0947	0.0917	75.8	73.3	1	45.0-156			3.25	20.8
Methylene Chloride	0.0250	ND	0.0243	0.0238	97.2	95.4	1	61.5-125			1.87	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.135	0.138	108	111	1	60.7-150			2.44	20
Methyl tert-butyl ether	0.0250	ND	0.0240	0.0239	95.9	95.7	1	61.4-136			0.280	20
Naphthalene	0.0250	0.278	0.308	0.297	121	75.0	1	61.8-143			3.78	20
n-Propylbenzene	0.0250	0.00195	0.0270	0.0233	100	85.6	1	63.2-139			14.7	20
Styrene	0.0250	ND	0.0275	0.0256	110	103	1	68.2-133			7.08	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0269	0.0252	108	101	1	70.5-132			6.54	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0295	0.0282	118	113	1	64.9-145			4.18	20
Tetrachloroethene	0.0250	ND	0.0265	0.0246	106	98.4	1	57.4-141			7.46	20
Toluene	0.0250	0.00209	0.0271	0.0263	100	96.8	1	67.8-124			2.96	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0253	0.0249	101	99.7	1	53.7-150			1.59	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0261	0.0221	104	88.3	1	65.7-143			16.6	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0251	0.0212	100	84.6	1	67.0-146			16.8	20
1,1,1-Trichloroethane	0.0250	ND	0.0228	0.0226	91.1	90.3	1	58.7-134			0.870	20
1,1,2-Trichloroethane	0.0250	0.000635	0.0273	0.0269	107	105	1	74.1-130			1.62	20
Trichloroethene	0.0250	ND	0.0253	0.0247	101	98.8	1	48.9-148			2.57	20
Trichlorofluoromethane	0.0250	ND	0.0247	0.0239	98.6	95.6	1	39.9-165			3.04	20
1,2,3-Trichloropropane	0.0250	ND	0.0285	0.0279	114	112	1	71.5-134			2.16	20
1,2,3-Trimethylbenzene	0.0250	0.0211	0.0425	0.0399	85.5	74.8	1	62.7-133			6.51	20
1,2,4-Trimethylbenzene	0.0250	0.0199	0.0423	0.0365	89.5	66.5	1	60.5-137			14.6	20
1,3,5-Trimethylbenzene	0.0250	0.00186	0.0268	0.0219	99.8	80.2	1	67.9-134		J3	20.1	20
Vinyl chloride	0.0250	ND	0.0218	0.0210	87.2	83.9	1	44.3-143			3.88	20
Xylenes, Total	0.0750	0.0468	0.117	0.114	94.0	89.0	1	65.6-133			3.28	20
(S) Toluene-d8					*103*	*103*		*90.0-115*				
(S) Dibromofluoromethane					*96.1*	*96.3*		*79.0-121*				
(S) 4-Bromofluorobenzene					*98.1*	*92.8*		*80.1-120*				

Method Blank (MB)

(MB) 09/10/15 21:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100

Method Blank (MB)

(MB) 09/10/15 21:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	0.000541		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	0.000812		0.000230	0.00100
1,2,4-Trichlorobenzene	0.000601		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*100*			*90.0-115*
(S) Dibromofluoromethane	*103*			*79.0-121*
(S) 4-Bromofluorobenzene	*95.6*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/10/15 20:11 • (LCSD) 09/10/15 20:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.183	0.184	147	147	28.7-175			0.230	20.9
Acrolein	0.125	0.168	0.171	134	136	40.4-172			1.69	20
Acrylonitrile	0.125	0.134	0.136	107	109	58.2-145			2.09	20
Benzene	0.0250	0.0236	0.0242	94.3	96.6	73.0-122			2.42	20
Bromobenzene	0.0250	0.0255	0.0260	102	104	81.5-115			2.09	20
Bromodichloromethane	0.0250	0.0238	0.0244	95.4	97.8	75.5-121			2.47	20
Bromoform	0.0250	0.0272	0.0274	109	110	71.5-131			0.800	20
Bromomethane	0.0250	0.0197	0.0202	78.6	80.7	22.4-187			2.60	20
n-Butylbenzene	0.0250	0.0275	0.0278	110	111	75.9-134			1.10	20
sec-Butylbenzene	0.0250	0.0268	0.0270	107	108	80.6-126			0.880	20
tert-Butylbenzene	0.0250	0.0264	0.0268	105	107	79.3-127			1.80	20
Carbon tetrachloride	0.0250	0.0261	0.0267	105	107	70.9-129			2.29	20
Chlorobenzene	0.0250	0.0251	0.0260	101	104	79.7-122			3.42	20
Chlorodibromomethane	0.0250	0.0262	0.0275	105	110	78.2-124			4.67	20
Chloroethane	0.0250	0.0236	0.0241	94.3	96.5	41.2-153			2.34	20
2-Chloroethyl vinyl ether	0.125	0.0888	0.0899	71.1	71.9	23.4-162			1.20	23.5
Chloroform	0.0250	0.0243	0.0249	97.3	99.8	73.2-125			2.47	20
Chloromethane	0.0250	0.0236	0.0239	94.6	95.7	55.8-134			1.17	20
2-Chlorotoluene	0.0250	0.0247	0.0248	98.7	99.1	76.4-125			0.400	20
4-Chlorotoluene	0.0250	0.0259	0.0264	104	106	81.5-121			1.86	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0275	0.0280	110	112	64.8-131			1.78	20
1,2-Dibromoethane	0.0250	0.0265	0.0270	106	108	79.8-122			2.05	20
Dibromomethane	0.0250	0.0251	0.0258	100	103	79.5-118			3.03	20
1,2-Dichlorobenzene	0.0250	0.0269	0.0276	108	111	84.7-118			2.61	20
1,3-Dichlorobenzene	0.0250	0.0262	0.0269	105	107	77.6-127			2.52	20
1,4-Dichlorobenzene	0.0250	0.0261	0.0269	105	108	82.2-114			3.08	20
Dichlorodifluoromethane	0.0250	0.0229	0.0229	91.5	91.7	56.0-134			0.220	20
1,1-Dichloroethane	0.0250	0.0251	0.0260	100	104	71.7-127			3.80	20
1,2-Dichloroethane	0.0250	0.0243	0.0250	97.2	99.9	65.3-126			2.71	20
1,1-Dichloroethene	0.0250	0.0254	0.0255	102	102	59.9-137			0.410	20
cis-1,2-Dichloroethene	0.0250	0.0240	0.0249	95.8	99.7	77.3-122			3.94	20
trans-1,2-Dichloroethene	0.0250	0.0242	0.0246	96.9	98.4	72.6-125			1.48	20
1,2-Dichloropropane	0.0250	0.0252	0.0257	101	103	77.4-125			2.08	20
1,1-Dichloropropene	0.0250	0.0243	0.0247	97.0	98.8	72.5-127			1.84	20
1,3-Dichloropropane	0.0250	0.0254	0.0259	102	104	80.6-115			1.99	20
cis-1,3-Dichloropropene	0.0250	0.0249	0.0252	99.4	101	77.7-124			1.51	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/10/15 20:11 • (LCSD) 09/10/15 20:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0249	0.0254	99.6	101	73.5-127			1.87	20
2,2-Dichloropropane	0.0250	0.0256	0.0262	102	105	61.3-134			2.23	20
Di-isopropyl ether	0.0250	0.0254	0.0263	101	105	65.1-135			3.50	20
Ethylbenzene	0.0250	0.0248	0.0254	99.4	102	80.9-121			2.36	20
Hexachloro-1,3-butadiene	0.0250	0.0276	0.0283	110	113	73.7-133			2.53	20
Isopropylbenzene	0.0250	0.0257	0.0263	103	105	81.6-124			2.26	20
p-Isopropyltoluene	0.0250	0.0270	0.0272	108	109	77.6-129			0.420	20
2-Butanone (MEK)	0.125	0.155	0.156	124	124	46.4-155			0.720	20
Methylene Chloride	0.0250	0.0232	0.0237	92.6	95.0	69.5-120			2.49	20
4-Methyl-2-pentanone (MIBK)	0.125	0.140	0.140	112	112	63.3-138			0.250	20
Methyl tert-butyl ether	0.0250	0.0252	0.0259	101	104	70.1-125			2.76	20
n-Propylbenzene	0.0250	0.0261	0.0266	105	106	81.9-122			1.71	20
Styrene	0.0250	0.0250	0.0259	100	104	79.9-124			3.62	20
1,1,1,2-Tetrachloroethane	0.0250	0.0260	0.0267	104	107	78.5-125			2.89	20
1,1,2,2-Tetrachloroethane	0.0250	0.0273	0.0276	109	110	79.3-123			0.780	20
Tetrachloroethene	0.0250	0.0254	0.0257	102	103	73.5-130			1.17	20
Toluene	0.0250	0.0232	0.0231	92.8	92.5	77.9-116			0.330	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0258	0.0261	103	104	62.0-141			1.05	20
1,2,3-Trichlorobenzene	0.0250	0.0266	0.0272	107	109	75.7-134			2.11	20
1,2,4-Trichlorobenzene	0.0250	0.0271	0.0276	108	110	76.1-136			1.68	20
1,1,1-Trichloroethane	0.0250	0.0252	0.0260	101	104	71.1-129			2.95	20
1,1,2-Trichloroethane	0.0250	0.0247	0.0255	98.7	102	81.6-120			3.36	20
Trichloroethene	0.0250	0.0247	0.0249	98.7	99.7	79.5-121			1.03	20
Trichlorofluoromethane	0.0250	0.0246	0.0250	98.4	100	49.1-157			1.74	20
1,2,3-Trichloropropane	0.0250	0.0282	0.0282	113	113	74.9-124			0.0300	20
1,2,3-Trimethylbenzene	0.0250	0.0251	0.0259	101	104	79.9-118			2.89	20
1,2,4-Trimethylbenzene	0.0250	0.0249	0.0252	99.8	101	79.0-122			1.11	20
1,3,5-Trimethylbenzene	0.0250	0.0257	0.0262	103	105	81.0-123			1.66	20
Vinyl chloride	0.0250	0.0248	0.0253	99.3	101	61.5-134			1.70	20
Xylenes, Total	0.0750	0.0730	0.0747	97.4	99.6	79.2-122			2.26	20
(S) Toluene-d8				*101*	*99.3*	*90.0-115*				
(S) Dibromofluoromethane				*101*	*103*	*79.0-121*				
(S) 4-Bromofluorobenzene				*95.3*	*95.1*	*80.1-120*				

L787076-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/10/15 22:38 • (MS) 09/10/15 20:57 • (MSD) 09/10/15 21:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00252	0.0919	0.0867	71.5	67.3	1	25.0-156			5.88	21.5
Acrolein	0.125	ND	0.155	0.151	124	121	1	34.0-194			2.43	21.5
Acrylonitrile	0.125	ND	0.141	0.137	113	110	1	55.9-161			2.35	20
Benzene	0.0250	ND	0.0223	0.0232	89.3	92.7	1	58.6-133			3.72	20
Bromobenzene	0.0250	ND	0.0243	0.0245	97.1	98.0	1	70.6-125			0.890	20
Bromodichloromethane	0.0250	ND	0.0230	0.0235	92.0	94.0	1	69.2-127			2.16	20
Bromoform	0.0250	ND	0.0267	0.0265	107	106	1	66.3-140			0.520	20
Bromomethane	0.0250	ND	0.0196	0.0192	78.6	77.0	1	16.6-183			2.03	20.5
n-Butylbenzene	0.0250	ND	0.0264	0.0265	106	106	1	64.8-145			0.140	20
sec-Butylbenzene	0.0250	ND	0.0250	0.0252	100	101	1	66.8-139			0.610	20
tert-Butylbenzene	0.0250	ND	0.0251	0.0252	100	101	1	67.1-138			0.300	20
Carbon tetrachloride	0.0250	ND	0.0248	0.0253	99.3	101	1	60.6-139			1.79	20
Chlorobenzene	0.0250	ND	0.0241	0.0242	96.5	96.7	1	70.1-130			0.170	20
Chlorodibromomethane	0.0250	ND	0.0258	0.0261	103	104	1	71.6-132			1.27	20
Chloroethane	0.0250	ND	0.0228	0.0227	91.1	90.9	1	33.3-155			0.240	20
2-Chloroethyl vinyl ether	0.125	ND	0.0519	0.0275	41.6	22.0	1	5.00-149		J3	61.5	40
Chloroform	0.0250	ND	0.0233	0.0241	93.2	96.5	1	66.1-133			3.40	20
Chloromethane	0.0250	ND	0.0226	0.0228	90.5	91.4	1	40.7-139			0.900	20
2-Chlorotoluene	0.0250	ND	0.0234	0.0234	93.4	93.4	1	66.9-134			0.0200	20
4-Chlorotoluene	0.0250	ND	0.0249	0.0249	99.5	99.6	1	66.8-134			0.140	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0280	0.0276	112	110	1	63.9-142			1.36	20.2
1,2-Dibromoethane	0.0250	ND	0.0258	0.0259	103	103	1	73.8-131			0.250	20
Dibromomethane	0.0250	ND	0.0250	0.0251	100	100	1	72.8-127			0.460	20
1,2-Dichlorobenzene	0.0250	ND	0.0262	0.0268	105	107	1	77.4-127			2.23	20
1,3-Dichlorobenzene	0.0250	ND	0.0253	0.0258	101	103	1	67.9-136			1.72	20
1,4-Dichlorobenzene	0.0250	ND	0.0256	0.0259	102	104	1	74.4-123			1.34	20
Dichlorodifluoromethane	0.0250	ND	0.0222	0.0219	88.6	87.4	1	42.2-146			1.34	20
1,1-Dichloroethane	0.0250	ND	0.0241	0.0247	96.4	98.9	1	64.0-134			2.49	20
1,2-Dichloroethane	0.0250	ND	0.0239	0.0247	95.5	98.8	1	60.7-132			3.38	20
1,1-Dichloroethene	0.0250	ND	0.0240	0.0245	95.9	97.9	1	48.8-144			2.07	20
cis-1,2-Dichloroethene	0.0250	ND	0.0231	0.0240	92.6	96.1	1	60.6-136			3.75	20
trans-1,2-Dichloroethene	0.0250	ND	0.0229	0.0235	91.8	93.9	1	61.0-132			2.26	20
1,2-Dichloropropane	0.0250	ND	0.0240	0.0246	95.9	98.4	1	69.7-130			2.63	20
1,1-Dichloropropene	0.0250	ND	0.0229	0.0237	91.5	94.7	1	61.5-136			3.45	20
1,3-Dichloropropane	0.0250	ND	0.0247	0.0248	98.9	99.3	1	74.3-123			0.440	20
cis-1,3-Dichloropropene	0.0250	ND	0.0239	0.0242	95.7	96.8	1	71.1-129			1.15	20

L787076-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/10/15 22:38 • (MS) 09/10/15 20:57 • (MSD) 09/10/15 21:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0244	0.0243	97.7	97.1	1	66.3-136			0.610	20
2,2-Dichloropropane	0.0250	ND	0.0249	0.0252	99.5	101	1	54.9-142			1.32	20
Di-isopropyl ether	0.0250	ND	0.0246	0.0253	98.2	101	1	59.9-140			3.08	20
Ethylbenzene	0.0250	ND	0.0232	0.0232	92.6	93.0	1	62.7-136			0.390	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0274	0.0273	110	109	1	61.1-144			0.520	20.1
Isopropylbenzene	0.0250	ND	0.0244	0.0243	97.8	97.2	1	67.4-136			0.620	20
p-Isopropyltoluene	0.0250	ND	0.0255	0.0255	102	102	1	62.8-143			0.300	20
2-Butanone (MEK)	0.125	ND	0.117	0.113	93.9	90.6	1	45.0-156			3.62	20.8
Methylene Chloride	0.0250	ND	0.0226	0.0232	90.6	92.8	1	61.5-125			2.44	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.143	0.138	114	110	1	60.7-150			3.62	20
Methyl tert-butyl ether	0.0250	ND	0.0249	0.0255	99.7	102	1	61.4-136			2.16	20
n-Propylbenzene	0.0250	ND	0.0248	0.0247	99.2	98.7	1	63.2-139			0.500	20
Styrene	0.0250	ND	0.0241	0.0241	96.2	96.3	1	68.2-133			0.0700	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0252	0.0255	101	102	1	70.5-132			1.28	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0274	0.0272	110	109	1	64.9-145			0.720	20
Tetrachloroethene	0.0250	ND	0.0236	0.0238	94.2	95.1	1	57.4-141			0.960	20
Toluene	0.0250	ND	0.0217	0.0220	86.7	88.0	1	67.8-124			1.49	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0245	0.0252	98.2	101	1	53.7-150			2.56	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0272	0.0265	109	106	1	65.7-143			2.30	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0272	0.0271	109	108	1	67.0-146			0.270	20
1,1,1-Trichloroethane	0.0250	ND	0.0241	0.0246	96.2	98.3	1	58.7-134			2.16	20
1,1,2-Trichloroethane	0.0250	ND	0.0248	0.0248	99.3	99.2	1	74.1-130			0.110	20
Trichloroethene	0.0250	ND	0.0231	0.0238	92.2	95.1	1	48.9-148			3.09	20
Trichlorofluoromethane	0.0250	0.0116	0.0327	0.0324	84.7	83.5	1	39.9-165			0.950	20
1,2,3-Trichloropropane	0.0250	ND	0.0280	0.0282	112	113	1	71.5-134			0.870	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0244	0.0248	97.7	99.1	1	62.7-133			1.40	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0240	0.0241	95.9	96.4	1	60.5-137			0.520	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0244	0.0248	97.7	99.2	1	67.9-134			1.53	20
Vinyl chloride	0.0250	ND	0.0235	0.0235	94.0	94.2	1	44.3-143			0.210	20
Xylenes, Total	0.0750	ND	0.0693	0.0696	92.4	92.7	1	65.6-133			0.350	20
(S) Toluene-d8					*100*	*99.2*		*90.0-115*				
(S) Dibromofluoromethane					*103*	*105*		*79.0-121*				
(S) 4-Bromofluorobenzene					*93.6*	*94.3*		*80.1-120*				

Method Blank (MB)

(MB) 09/12/15 09:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Naphthalene	U		0.00100	0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/12/15 07:28 • (LCSD) 09/12/15 07:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	0.0181	0.0176	72.3	70.4	69.7-134			2.69	20

L787982-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/12/15 11:45 • (MS) 09/12/15 10:46 • (MSD) 09/12/15 11:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	0.000397	0.0201	0.0206	78.8	80.8	1	61.8-143			2.46	20

Method Blank (MB)

(MB) 09/09/15 01:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000140	0.0000500
Acenaphthene	U		0.0000100	0.0000500
Acenaphthylene	U		0.0000120	0.0000500
Benzo(a)anthracene	0.00000627		0.00000410	0.0000500
Benzo(a)pyrene	U		0.0000116	0.0000500
Benzo(b)fluoranthene	0.00000214		0.00000212	0.0000500
Benzo(g,h,i)perylene	U		0.00000227	0.0000500
Benzo(k)fluoranthene	U		0.0000136	0.0000500
Chrysene	U		0.0000108	0.0000500
Dibenz(a,h)anthracene	U		0.00000396	0.0000500
Fluoranthene	U		0.0000157	0.0000500
Fluorene	U		0.00000850	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500
Naphthalene	U		0.0000198	0.000250
Phenanthrene	U		0.00000820	0.0000500
Pyrene	U		0.0000117	0.0000500
1-Methylnaphthalene	U		0.00000821	0.000250
2-Methylnaphthalene	U		0.00000902	0.000250
2-Chloronaphthalene	U		0.00000647	0.000250
(S) Nitrobenzene-d5	*149*		*33.8-179*	
(S) 2-Fluorobiphenyl	*127*		*55.5-150*	
(S) p-Terphenyl-d14	*108*		*46.2-163*	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/09/15 00:38 • (LCSD) 09/09/15 01:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	0.00256	0.00227	128	114	68.9-153			12.1	20
Acenaphthene	0.00200	0.00224	0.00194	112	97.2	67.7-153			14.3	20
Acenaphthylene	0.00200	0.00223	0.00200	111	100	66.9-141			10.6	20
Benzo(a)anthracene	0.00200	0.00234	0.00218	117	109	63.1-147			7.35	20
Benzo(a)pyrene	0.00200	0.00231	0.00215	115	108	62.2-150			6.99	20
Benzo(b)fluoranthene	0.00200	0.00231	0.00208	115	104	58.4-148			10.2	20
Benzo(g,h,i)perylene	0.00200	0.00235	0.00233	117	116	57.4-152			0.950	20
Benzo(k)fluoranthene	0.00200	0.00217	0.00205	108	103	60.5-154			5.44	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/09/15 00:38 • (LCSD) 09/09/15 01:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chrysene	0.00200	0.00243	0.00233	122	117	64.8-155			4.25	20
Dibenz(a,h)anthracene	0.00200	0.00231	0.00237	116	118	53.5-153			2.52	20
Fluoranthene	0.00200	0.00259	0.00232	130	116	68.6-153			10.9	20
Fluorene	0.00200	0.00224	0.00214	112	107	67.3-141			4.65	20
Indeno(1,2,3-cd)pyrene	0.00200	0.00232	0.00234	116	117	57.0-155			1.20	20
Naphthalene	0.00200	0.00217	0.00192	108	96.0	66.7-135			12.1	20
Phenanthrene	0.00200	0.00235	0.00212	117	106	64.3-143			9.93	20
Pyrene	0.00200	0.00212	0.00194	106	97.2	60.2-154			8.64	20
1-Methylnaphthalene	0.00200	0.00220	0.00194	110	96.9	68.3-144			12.5	20
2-Methylnaphthalene	0.00200	0.00219	0.00192	110	95.8	67.6-143			13.3	20
2-Chloronaphthalene	0.00200	0.00205	0.00183	103	91.5	69.7-140			11.5	20
(S) Nitrobenzene-d5				*129*	*123*	*33.8-179*				
(S) 2-Fluorobiphenyl				*111*	*105*	*55.5-150*				
(S) p-Terphenyl-d14				*99.9*	*97.9*	*46.2-163*				

L786630-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/09/15 03:55 • (MS) 09/09/15 04:16 • (MSD) 09/09/15 04:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	0.0135	0.0158	0.0153	118	89.6	1	68.9-153			3.61	20
Acenaphthene	0.00200	0.152	0.156	0.171	204	937	1	67.7-141	V	V	8.98	20
Acenaphthylene	0.00200	0.0525	0.0557	0.0602	158	382	1	66.9-141	V	V	7.75	20
Benzo(a)anthracene	0.00200	0.000140	0.00234	0.00237	110	111	1	63.1-147			1.17	20
Benzo(a)pyrene	0.00200	0.0000164	0.00204	0.00204	101	101	1	62.2-150			0.0500	20
Benzo(b)fluoranthene	0.00200	0.0000157	0.00191	0.00194	94.7	96.1	1	58.4-148			1.40	20
Benzo(g,h,i)perylene	0.00200	0.0000124	0.00216	0.00208	107	104	1	57.4-152			3.48	20
Benzo(k)fluoranthene	0.00200	0.00000456	0.00199	0.00199	99.5	99.1	1	60.5-154			0.400	20
Chrysene	0.00200	0.000104	0.00237	0.00239	113	114	1	64.8-155			0.580	20
Dibenz(a,h)anthracene	0.00200	0.00000241	0.00197	0.00181	98.5	90.3	1	53.5-153			8.73	20
Fluoranthene	0.00200	0.00439	0.00680	0.00617	121	89.5	1	68.6-153			9.58	20
Fluorene	0.00200	0.0254	0.0278	0.0298	118	218	1	67.3-141		V	6.93	20
Indeno(1,2,3-cd)pyrene	0.00200	0.00000772	0.00209	0.00198	104	98.6	1	57.0-155			5.25	20
Naphthalene	0.00200	0.291	0.302	0.306	518	737	1	66.7-135	V	V	1.44	20
Phenanthrene	0.00200	0.0578	0.0616	0.0608	187	148	1	64.3-143	V	V	1.29	20
Pyrene	0.00200	0.00516	0.00699	0.00599	91.1	41.2	1	60.2-154		J6	15.4	20

L786630-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/09/15 03:55 • (MS) 09/09/15 04:16 • (MSD) 09/09/15 04:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1-Methylnaphthalene	0.00200	0.697	0.717	0.775	998	3890	1	68.3-144	V	V	7.75	20
2-Methylnaphthalene	0.00200	0.00329	0.00524	0.00524	97.7	97.7	1	67.6-143			0.000	20
2-Chloronaphthalene	0.00200	ND	0.00193	0.00205	96.6	103	1	69.7-140			5.99	20
(S) Nitrobenzene-d5					*118*	*114*		*33.8-179*				
(S) 2-Fluorobiphenyl					*104*	*106*		*55.5-150*				
(S) p-Terphenyl-d14					*90.9*	*87.8*		*46.2-163*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

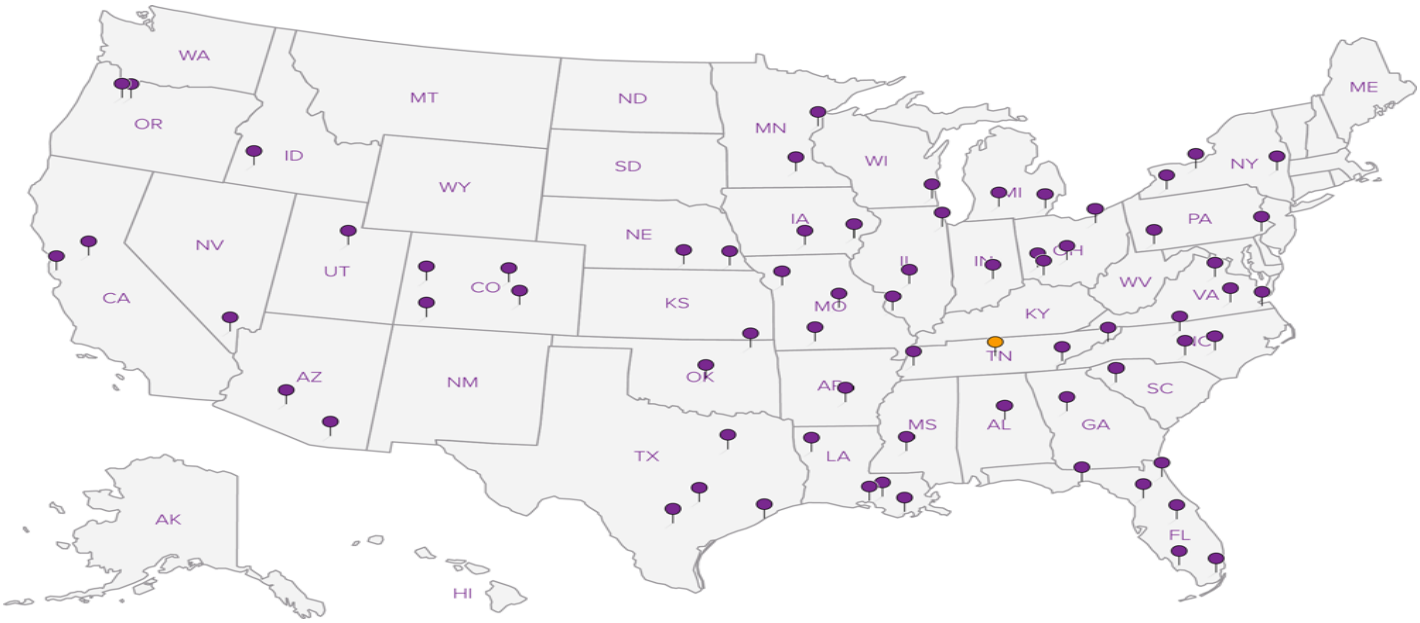
[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

Our Locations

ESC 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. **ESC Lab Sciences performs all testing at our central laboratory.**



Chain of Custody Page 1 of 2

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L786530
E206

Company Name/Address:
USA Environmental, LP
17301 W. Colfax Ave.
Suite 152
Golden, CO 80401

Billing Information:

Report to: ~~Andrew Stone~~ Craig Lugowski

Email To: clugowski ~~astone~~@usaenviro.com

Project Description:

City/State Collected:

Phone: 303-562-6438
Fax:

Client Project # 5047-RC-C100

Lab Project #

Collected by (print): Andrew Stone

Site/Facility ID #

P.O. #

Collected by (signature): Andrew Stone

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ... 200%
___ Next Day ... 100%
___ Two Day ... 50%
___ Three Day ... 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: USAENVGCO
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Ctnrs	V8260 - (2) 40mL Amber - HCl	PAHSIMLVI -(3) 40mL Amber No Pres	MS/MSD							Rem./Contaminant	Sample # (lab only)
COB-MW1-090115	Grab	GW	NA	9/1/15	0920	5	X	X									-01
COB-MW2-090115		GW			1115	5	X	X									-02
COB-MW3R-090115		GW			1355	5	X	X									-03
COB-MW4-090115		GW			1450	5	X	X									-04
COB-MW5-090115		GW			0950	5	X	X									-05
COB-MW6-090115		GW			1240	5	X	X									-06
COB-MW7-090115		GW			1210	10	X	X	X								-07
COB-MW8R-090115		GW			1455	5	X	X									-08
COB-MW10-090115		GW			1335	5	X	X									-09
COB-MW11-090115		GW			1020	5	X	X									-10

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ___

pH ___ Temp ___
Flow ___ Other ___

6436713674 20

Hold #

Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Andrew Stone	9/1/15	1600	Barker FedEx
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			[illegible]

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ___

Temp 3.1 °C Bottles Received: 86

Date: 9/2/15 Time: 0900

Condition: 75 OK (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address:

USA Environmental, LP

17301 W. Colfax Ave.
Suite 152
Golden, CO 80401

Billing Information:

Report to: ~~Andrew Stone~~ Craig Lugowski

Email To: clugowski ~~astone~~@usaenviro.com

Project Description:

City/State Collected:

Phone: 303-562-6438

Fax:

Client Project #

Lab Project #

Collected by (print): Andrew Stone

Site/Facility ID #

P.O. #

Collected by (signature): AndrewStone

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L786630

Table #

Acctnum: USAENVGCO

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260 - (2) 40mL Amber - HCl	PAHSIMLVI -(3) 40mL Amber No Pres								Rem./Contaminant	Sample # (lab only)
COB-MW12-090115	Grab	GW	NA	9/1/15	1505	5	X	X									-11
COB-MW13-090115		GW			1040	5	X	X									-12
COB-MW14-090115		GW			0935	5	X	X									-13
COB-MW15-090115		GW			1145	5	X	X									-14
COB-MW16-090115		GW			1410	5	X	X									-15
COB-FIELDDUP-090115		GW			0000	5	X	X									-16
Trip Blank						1	X	X									-17

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
AndrewStone	9/1/15	1600	Builder Fed Ex		OK
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1 °C Bottles Received: 8	COC Seal Intact: ✓ Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/2/15 Time: 0900	pH Checked: NCF:

ANALYTICAL REPORT

December 29, 2015

USA Environment, LP

Sample Delivery Group:	L806224
Samples Received:	12/11/2015
Project Number:	5047-RC-C100
Description:	13th Street Plaza
Report To:	Mr. Craig Lugowski 17301 W. Colfax Avenue, Suite 152 Golden, CO 80401

Entire Report Reviewed By:

Jason Romer
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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COB-MW10-120915 L806224-09 23

COB-MW11-120915 L806224-10 25

COB-MW12-120915 L806224-11 27

COB-MW13-120915 L806224-12 29

COB-MW14-120915 L806224-13 31

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COB-MW1-120915 L806224-01 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 10:00 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 17:01	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG835332	1	12/21/15 02:33	12/21/15 02:33	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837573	1	12/22/15 18:20	12/22/15 18:20	BMB

COB-MW2-120915 L806224-02 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 11:15 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 17:23	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG835332	1	12/21/15 02:51	12/21/15 02:51	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837573	1	12/22/15 18:38	12/22/15 18:38	BMB

COB-MW3R-120915 L806224-03 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 14:50 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 17:44	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	20	12/13/15 22:47	12/16/15 23:04	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG835338	1	12/21/15 20:39	12/21/15 20:39	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837923	20	12/23/15 03:19	12/23/15 03:19	DAH

COB-MW4-120915 L806224-04 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 10:51 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 18:06	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG835338	1	12/22/15 06:22	12/22/15 06:22	DAH

COB-MW5-120915 L806224-05 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 11:35 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 18:28	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG835338	1	12/22/15 06:40	12/22/15 06:40	DAH

COB-MW6-120915 L806224-06 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 13:10 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 18:49	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	20	12/13/15 22:47	12/16/15 23:26	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG835338	1	12/21/15 19:10	12/21/15 19:10	DAH

COB-MW7-120915 L806224-07 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 14:20 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 19:54	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	20	12/13/15 22:47	12/16/15 23:48	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG835338	1	12/22/15 06:59	12/22/15 06:59	DAH

COB-MW7-120915 L806224-07 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 14:20 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837923	5	12/23/15 03:39	12/23/15 03:39	DAH

COB-MW8R-120915 L806224-08 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 15:35 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/16/15 22:55	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG835338	1	12/22/15 07:17	12/22/15 07:17	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837923	1	12/23/15 03:59	12/23/15 03:59	DAH

COB-MW10-120915 L806224-09 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 15:15 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 20:37	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	20	12/13/15 22:47	12/17/15 00:09	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG835338	1	12/22/15 08:18	12/22/15 08:18	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837923	5	12/23/15 04:19	12/23/15 04:19	DAH

COB-MW11-120915 L806224-10 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 12:25 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 20:58	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837923	1	12/23/15 04:39	12/23/15 04:39	DAH

COB-MW12-120915 L806224-11 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 15:50 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 21:20	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837554	1	12/22/15 23:46	12/22/15 23:46	JHH

COB-MW13-120915 L806224-12 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 12:05 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 21:42	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837554	1	12/23/15 00:04	12/23/15 00:04	JHH

COB-MW14-120915 L806224-13 GW

Collected by: Andrew Stone | Collected date/time: 12/09/15 10:15 | Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 22:03	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837554	1	12/23/15 00:22	12/23/15 00:22	JHH

COB-MW15-120915 L806224-14 GW

Collected by: Andrew Stone
Collected date/time: 12/09/15 13:55
Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 23:08	CMJ
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	20	12/13/15 22:47	12/17/15 00:31	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837554	1	12/23/15 00:41	12/23/15 00:41	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837559	10	12/23/15 18:07	12/23/15 18:07	BMB

COB-MW16-120915 L806224-15 GW

Collected by: Andrew Stone
Collected date/time: 12/09/15 16:00
Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 22:25	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	20	12/13/15 22:47	12/17/15 00:53	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837923	1	12/23/15 04:59	12/23/15 04:59	DAH

COB-FIELDDUP-120915 L806224-16 GW

Collected by: Andrew Stone
Collected date/time: 12/09/15 00:00
Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	1	12/13/15 22:47	12/15/15 22:46	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG835278	20	12/13/15 22:47	12/17/15 01:15	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837559	5	12/23/15 18:26	12/23/15 18:26	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837923	1	12/23/15 05:19	12/23/15 05:19	DAH

TRIP BLANK L806224-17 GW

Collected by: Andrew Stone
Collected date/time: 12/09/15 09:00
Received date/time: 12/11/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG837923	1	12/23/15 02:39	12/23/15 02:39	DAH

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 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.

Jason Romer
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	12/21/2015 02:33	WG835332
Acrolein	U		0.00887	0.0500	1	12/21/2015 02:33	WG835332
Acrylonitrile	U		0.00187	0.0100	1	12/21/2015 02:33	WG835332
Benzene	U		0.000331	0.00100	1	12/21/2015 02:33	WG835332
Bromobenzene	U		0.000352	0.00100	1	12/21/2015 02:33	WG835332
Bromodichloromethane	U		0.000380	0.00100	1	12/21/2015 02:33	WG835332
Bromoform	U		0.000469	0.00100	1	12/21/2015 02:33	WG835332
Bromomethane	U		0.000866	0.00500	1	12/21/2015 02:33	WG835332
n-Butylbenzene	U		0.000361	0.00100	1	12/21/2015 02:33	WG835332
sec-Butylbenzene	U		0.000365	0.00100	1	12/21/2015 02:33	WG835332
tert-Butylbenzene	U		0.000399	0.00100	1	12/21/2015 02:33	WG835332
Carbon tetrachloride	U		0.000379	0.00100	1	12/21/2015 02:33	WG835332
Chlorobenzene	U		0.000348	0.00100	1	12/21/2015 02:33	WG835332
Chlorodibromomethane	U		0.000327	0.00100	1	12/21/2015 02:33	WG835332
Chloroethane	U		0.000453	0.00500	1	12/21/2015 02:33	WG835332
2-Chloroethyl vinyl ether	U	J4	0.00301	0.0500	1	12/21/2015 02:33	WG835332
Chloroform	U		0.000324	0.00500	1	12/21/2015 02:33	WG835332
Chloromethane	U		0.000276	0.00250	1	12/21/2015 02:33	WG835332
2-Chlorotoluene	U		0.000375	0.00100	1	12/21/2015 02:33	WG835332
4-Chlorotoluene	U		0.000351	0.00100	1	12/21/2015 02:33	WG835332
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/21/2015 02:33	WG835332
1,2-Dibromoethane	U		0.000381	0.00100	1	12/21/2015 02:33	WG835332
Dibromomethane	U		0.000346	0.00100	1	12/21/2015 02:33	WG835332
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/21/2015 02:33	WG835332
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/21/2015 02:33	WG835332
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/21/2015 02:33	WG835332
Dichlorodifluoromethane	U		0.000551	0.00500	1	12/21/2015 02:33	WG835332
1,1-Dichloroethane	U		0.000259	0.00100	1	12/21/2015 02:33	WG835332
1,2-Dichloroethane	U		0.000361	0.00100	1	12/21/2015 02:33	WG835332
1,1-Dichloroethene	U		0.000398	0.00100	1	12/21/2015 02:33	WG835332
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/21/2015 02:33	WG835332
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/21/2015 02:33	WG835332
1,2-Dichloropropane	U		0.000306	0.00100	1	12/21/2015 02:33	WG835332
1,1-Dichloropropene	U		0.000352	0.00100	1	12/21/2015 02:33	WG835332
1,3-Dichloropropane	U		0.000366	0.00100	1	12/21/2015 02:33	WG835332
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/21/2015 02:33	WG835332
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/21/2015 02:33	WG835332
2,2-Dichloropropane	U		0.000321	0.00100	1	12/21/2015 02:33	WG835332
Di-isopropyl ether	U		0.000320	0.00100	1	12/21/2015 02:33	WG835332
Ethylbenzene	U		0.000384	0.00100	1	12/21/2015 02:33	WG835332
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	12/21/2015 02:33	WG835332
Isopropylbenzene	U		0.000326	0.00100	1	12/21/2015 02:33	WG835332
p-Isopropyltoluene	U		0.000350	0.00100	1	12/21/2015 02:33	WG835332
2-Butanone (MEK)	U		0.00393	0.0100	1	12/21/2015 02:33	WG835332
Methylene Chloride	U		0.00100	0.00500	1	12/21/2015 02:33	WG835332
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/21/2015 02:33	WG835332
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/21/2015 02:33	WG835332
Naphthalene	U		0.00100	0.00500	1	12/22/2015 18:20	WG837573
n-Propylbenzene	U		0.000349	0.00100	1	12/21/2015 02:33	WG835332
Styrene	U		0.000307	0.00100	1	12/21/2015 02:33	WG835332
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/21/2015 02:33	WG835332
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/21/2015 02:33	WG835332
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/21/2015 02:33	WG835332
Tetrachloroethene	U		0.000372	0.00100	1	12/21/2015 02:33	WG835332
Toluene	U		0.000780	0.00500	1	12/21/2015 02:33	WG835332
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/21/2015 02:33	WG835332

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	12/21/2015 02:33	WG835332
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/21/2015 02:33	WG835332
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/21/2015 02:33	WG835332
Trichloroethene	U		0.000398	0.00100	1	12/21/2015 02:33	WG835332
Trichlorofluoromethane	U		0.00120	0.00500	1	12/21/2015 02:33	WG835332
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/21/2015 02:33	WG835332
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	12/21/2015 02:33	WG835332
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	12/21/2015 02:33	WG835332
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	12/21/2015 02:33	WG835332
Vinyl chloride	U		0.000259	0.00100	1	12/21/2015 02:33	WG835332
Xylenes, Total	U		0.00106	0.00300	1	12/21/2015 02:33	WG835332
(S) Toluene-d8	*102*			*90.0-115*		*12/21/2015 02:33*	WG835332
(S) Dibromofluoromethane	*99.8*			*79.0-121*		*12/21/2015 02:33*	WG835332
(S) 4-Bromofluorobenzene	*89.5*			*80.1-120*		*12/21/2015 02:33*	WG835332

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000140	0.0000500	1	12/15/2015 17:01	WG835278
Acenaphthene	U		0.0000100	0.0000500	1	12/15/2015 17:01	WG835278
Acenaphthylene	U		0.0000120	0.0000500	1	12/15/2015 17:01	WG835278
Benzo(a)anthracene	U		0.00000410	0.0000500	1	12/15/2015 17:01	WG835278
Benzo(a)pyrene	U		0.0000116	0.0000500	1	12/15/2015 17:01	WG835278
Benzo(b)fluoranthene	U		0.00000212	0.0000500	1	12/15/2015 17:01	WG835278
Benzo(g,h,i)perylene	U		0.00000227	0.0000500	1	12/15/2015 17:01	WG835278
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	12/15/2015 17:01	WG835278
Chrysene	U		0.0000108	0.0000500	1	12/15/2015 17:01	WG835278
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	12/15/2015 17:01	WG835278
Fluoranthene	U		0.0000157	0.0000500	1	12/15/2015 17:01	WG835278
Fluorene	U		0.00000850	0.0000500	1	12/15/2015 17:01	WG835278
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	12/15/2015 17:01	WG835278
Naphthalene	0.0000584	J	0.0000198	0.000250	1	12/15/2015 17:01	WG835278
Phenanthrene	U		0.00000820	0.0000500	1	12/15/2015 17:01	WG835278
Pyrene	U		0.0000117	0.0000500	1	12/15/2015 17:01	WG835278
1-Methylnaphthalene	U		0.00000821	0.000250	1	12/15/2015 17:01	WG835278
2-Methylnaphthalene	U		0.00000902	0.000250	1	12/15/2015 17:01	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 17:01	WG835278
(S) Nitrobenzene-d5	*98.2*			*33.8-179*		*12/15/2015 17:01*	WG835278
(S) 2-Fluorobiphenyl	*85.2*			*55.5-150*		*12/15/2015 17:01*	WG835278
(S) p-Terphenyl-d14	*76.1*			*46.2-163*		*12/15/2015 17:01*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	12/21/2015 02:51	WG835332
Acrolein	U		0.00887	0.0500	1	12/21/2015 02:51	WG835332
Acrylonitrile	U		0.00187	0.0100	1	12/21/2015 02:51	WG835332
Benzene	U		0.000331	0.00100	1	12/21/2015 02:51	WG835332
Bromobenzene	U		0.000352	0.00100	1	12/21/2015 02:51	WG835332
Bromodichloromethane	U		0.000380	0.00100	1	12/21/2015 02:51	WG835332
Bromoform	U		0.000469	0.00100	1	12/21/2015 02:51	WG835332
Bromomethane	U		0.000866	0.00500	1	12/21/2015 02:51	WG835332
n-Butylbenzene	U		0.000361	0.00100	1	12/21/2015 02:51	WG835332
sec-Butylbenzene	U		0.000365	0.00100	1	12/21/2015 02:51	WG835332
tert-Butylbenzene	U		0.000399	0.00100	1	12/21/2015 02:51	WG835332
Carbon tetrachloride	U		0.000379	0.00100	1	12/21/2015 02:51	WG835332
Chlorobenzene	U		0.000348	0.00100	1	12/21/2015 02:51	WG835332
Chlorodibromomethane	U		0.000327	0.00100	1	12/21/2015 02:51	WG835332
Chloroethane	U		0.000453	0.00500	1	12/21/2015 02:51	WG835332
2-Chloroethyl vinyl ether	U	J4	0.00301	0.0500	1	12/21/2015 02:51	WG835332
Chloroform	U		0.000324	0.00500	1	12/21/2015 02:51	WG835332
Chloromethane	U		0.000276	0.00250	1	12/21/2015 02:51	WG835332
2-Chlorotoluene	U		0.000375	0.00100	1	12/21/2015 02:51	WG835332
4-Chlorotoluene	U		0.000351	0.00100	1	12/21/2015 02:51	WG835332
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/21/2015 02:51	WG835332
1,2-Dibromoethane	U		0.000381	0.00100	1	12/21/2015 02:51	WG835332
Dibromomethane	U		0.000346	0.00100	1	12/21/2015 02:51	WG835332
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/21/2015 02:51	WG835332
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/21/2015 02:51	WG835332
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/21/2015 02:51	WG835332
Dichlorodifluoromethane	U		0.000551	0.00500	1	12/21/2015 02:51	WG835332
1,1-Dichloroethane	U		0.000259	0.00100	1	12/21/2015 02:51	WG835332
1,2-Dichloroethane	U		0.000361	0.00100	1	12/21/2015 02:51	WG835332
1,1-Dichloroethene	U		0.000398	0.00100	1	12/21/2015 02:51	WG835332
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/21/2015 02:51	WG835332
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/21/2015 02:51	WG835332
1,2-Dichloropropane	U		0.000306	0.00100	1	12/21/2015 02:51	WG835332
1,1-Dichloropropene	U		0.000352	0.00100	1	12/21/2015 02:51	WG835332
1,3-Dichloropropane	U		0.000366	0.00100	1	12/21/2015 02:51	WG835332
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/21/2015 02:51	WG835332
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/21/2015 02:51	WG835332
2,2-Dichloropropane	U		0.000321	0.00100	1	12/21/2015 02:51	WG835332
Di-isopropyl ether	U		0.000320	0.00100	1	12/21/2015 02:51	WG835332
Ethylbenzene	U		0.000384	0.00100	1	12/21/2015 02:51	WG835332
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	12/21/2015 02:51	WG835332
Isopropylbenzene	U		0.000326	0.00100	1	12/21/2015 02:51	WG835332
p-Isopropyltoluene	U		0.000350	0.00100	1	12/21/2015 02:51	WG835332
2-Butanone (MEK)	U		0.00393	0.0100	1	12/21/2015 02:51	WG835332
Methylene Chloride	U		0.00100	0.00500	1	12/21/2015 02:51	WG835332
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/21/2015 02:51	WG835332
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/21/2015 02:51	WG835332
Naphthalene	U		0.00100	0.00500	1	12/22/2015 18:38	WG837573
n-Propylbenzene	U		0.000349	0.00100	1	12/21/2015 02:51	WG835332
Styrene	U		0.000307	0.00100	1	12/21/2015 02:51	WG835332
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/21/2015 02:51	WG835332
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/21/2015 02:51	WG835332
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/21/2015 02:51	WG835332
Tetrachloroethene	U		0.000372	0.00100	1	12/21/2015 02:51	WG835332
Toluene	U		0.000780	0.00500	1	12/21/2015 02:51	WG835332
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/21/2015 02:51	WG835332

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	12/21/2015 02:51	WG835332
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/21/2015 02:51	WG835332
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/21/2015 02:51	WG835332
Trichloroethene	U		0.000398	0.00100	1	12/21/2015 02:51	WG835332
Trichlorofluoromethane	U		0.00120	0.00500	1	12/21/2015 02:51	WG835332
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/21/2015 02:51	WG835332
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	12/21/2015 02:51	WG835332
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	12/21/2015 02:51	WG835332
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	12/21/2015 02:51	WG835332
Vinyl chloride	U		0.000259	0.00100	1	12/21/2015 02:51	WG835332
Xylenes, Total	U		0.00106	0.00300	1	12/21/2015 02:51	WG835332
(S) Toluene-d8	*101*			*90.0-115*		*12/21/2015 02:51*	WG835332
(S) Dibromofluoromethane	*99.6*			*79.0-121*		*12/21/2015 02:51*	WG835332
(S) 4-Bromofluorobenzene	*90.3*			*80.1-120*		*12/21/2015 02:51*	WG835332

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000140	0.0000500	1	12/15/2015 17:23	WG835278
Acenaphthene	U		0.0000100	0.0000500	1	12/15/2015 17:23	WG835278
Acenaphthylene	U		0.0000120	0.0000500	1	12/15/2015 17:23	WG835278
Benzo(a)anthracene	0.0000400	J	0.00000410	0.0000500	1	12/15/2015 17:23	WG835278
Benzo(a)pyrene	0.0000589		0.0000116	0.0000500	1	12/15/2015 17:23	WG835278
Benzo(b)fluoranthene	0.0000502		0.00000212	0.0000500	1	12/15/2015 17:23	WG835278
Benzo(g,h,i)perylene	0.0000391	J	0.00000227	0.0000500	1	12/15/2015 17:23	WG835278
Benzo(k)fluoranthene	0.0000145	J	0.0000136	0.0000500	1	12/15/2015 17:23	WG835278
Chrysene	0.0000291	J	0.0000108	0.0000500	1	12/15/2015 17:23	WG835278
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	12/15/2015 17:23	WG835278
Fluoranthene	0.0000361	J	0.0000157	0.0000500	1	12/15/2015 17:23	WG835278
Fluorene	U		0.00000850	0.0000500	1	12/15/2015 17:23	WG835278
Indeno(1,2,3-cd)pyrene	0.0000278	J	0.0000148	0.0000500	1	12/15/2015 17:23	WG835278
Naphthalene	0.0000803	J	0.0000198	0.000250	1	12/15/2015 17:23	WG835278
Phenanthrene	U		0.00000820	0.0000500	1	12/15/2015 17:23	WG835278
Pyrene	0.000304		0.0000117	0.0000500	1	12/15/2015 17:23	WG835278
1-Methylnaphthalene	0.00000936	J	0.00000821	0.000250	1	12/15/2015 17:23	WG835278
2-Methylnaphthalene	U		0.00000902	0.000250	1	12/15/2015 17:23	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 17:23	WG835278
(S) Nitrobenzene-d5	*94.0*			*33.8-179*		*12/15/2015 17:23*	WG835278
(S) 2-Fluorobiphenyl	*80.1*			*55.5-150*		*12/15/2015 17:23*	WG835278
(S) p-Terphenyl-d14	*70.5*			*46.2-163*		*12/15/2015 17:23*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	12/21/2015 20:39	WG835338
Acrolein	U	J4	0.00887	0.0500	1	12/21/2015 20:39	WG835338
Acrylonitrile	U		0.00187	0.0100	1	12/21/2015 20:39	WG835338
Benzene	0.329		0.00662	0.0200	20	12/23/2015 03:19	WG837923
Bromobenzene	U		0.000352	0.00100	1	12/21/2015 20:39	WG835338
Bromodichloromethane	U		0.000380	0.00100	1	12/21/2015 20:39	WG835338
Bromoform	U		0.000469	0.00100	1	12/21/2015 20:39	WG835338
Bromomethane	U		0.000866	0.00500	1	12/21/2015 20:39	WG835338
n-Butylbenzene	0.00161	J3	0.000361	0.00100	1	12/21/2015 20:39	WG835338
sec-Butylbenzene	U		0.000365	0.00100	1	12/21/2015 20:39	WG835338
tert-Butylbenzene	U	J3	0.000399	0.00100	1	12/21/2015 20:39	WG835338
Carbon tetrachloride	U		0.000379	0.00100	1	12/21/2015 20:39	WG835338
Chlorobenzene	U		0.000348	0.00100	1	12/21/2015 20:39	WG835338
Chlorodibromomethane	U		0.000327	0.00100	1	12/21/2015 20:39	WG835338
Chloroethane	U		0.000453	0.00500	1	12/21/2015 20:39	WG835338
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/21/2015 20:39	WG835338
Chloroform	U		0.000324	0.00500	1	12/21/2015 20:39	WG835338
Chloromethane	U		0.000276	0.00250	1	12/21/2015 20:39	WG835338
2-Chlorotoluene	U		0.000375	0.00100	1	12/21/2015 20:39	WG835338
4-Chlorotoluene	U		0.000351	0.00100	1	12/21/2015 20:39	WG835338
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/21/2015 20:39	WG835338
1,2-Dibromoethane	U		0.000381	0.00100	1	12/21/2015 20:39	WG835338
Dibromomethane	U		0.000346	0.00100	1	12/21/2015 20:39	WG835338
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/21/2015 20:39	WG835338
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/21/2015 20:39	WG835338
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/21/2015 20:39	WG835338
Dichlorodifluoromethane	U	J3	0.000551	0.00500	1	12/21/2015 20:39	WG835338
1,1-Dichloroethane	U		0.000259	0.00100	1	12/21/2015 20:39	WG835338
1,2-Dichloroethane	U		0.000361	0.00100	1	12/21/2015 20:39	WG835338
1,1-Dichloroethene	U		0.000398	0.00100	1	12/21/2015 20:39	WG835338
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/21/2015 20:39	WG835338
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/21/2015 20:39	WG835338
1,2-Dichloropropane	U		0.000306	0.00100	1	12/21/2015 20:39	WG835338
1,1-Dichloropropene	U		0.000352	0.00100	1	12/21/2015 20:39	WG835338
1,3-Dichloropropane	U		0.000366	0.00100	1	12/21/2015 20:39	WG835338
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/21/2015 20:39	WG835338
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/21/2015 20:39	WG835338
2,2-Dichloropropane	U		0.000321	0.00100	1	12/21/2015 20:39	WG835338
Di-isopropyl ether	U		0.000320	0.00100	1	12/21/2015 20:39	WG835338
Ethylbenzene	0.340		0.00768	0.0200	20	12/23/2015 03:19	WG837923
Hexachloro-1,3-butadiene	U	J3	0.000256	0.00100	1	12/21/2015 20:39	WG835338
Isopropylbenzene	0.0360		0.000326	0.00100	1	12/21/2015 20:39	WG835338
p-Isopropyltoluene	0.00310		0.000350	0.00100	1	12/21/2015 20:39	WG835338
2-Butanone (MEK)	U		0.00393	0.0100	1	12/21/2015 20:39	WG835338
Methylene Chloride	U		0.00100	0.00500	1	12/21/2015 20:39	WG835338
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/21/2015 20:39	WG835338
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/21/2015 20:39	WG835338
Naphthalene	1.82		0.0200	0.100	20	12/23/2015 03:19	WG837923
n-Propylbenzene	0.0107		0.000349	0.00100	1	12/21/2015 20:39	WG835338
Styrene	U		0.000307	0.00100	1	12/21/2015 20:39	WG835338
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/21/2015 20:39	WG835338
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/21/2015 20:39	WG835338
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/21/2015 20:39	WG835338
Tetrachloroethene	U		0.000372	0.00100	1	12/21/2015 20:39	WG835338
Toluene	0.0213		0.000780	0.00500	1	12/21/2015 20:39	WG835338
1,2,3-Trichlorobenzene	U	J3 J4	0.000230	0.00100	1	12/21/2015 20:39	WG835338

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U	J3	0.000355	0.00100	1	12/21/2015 20:39	WG835338
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/21/2015 20:39	WG835338
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/21/2015 20:39	WG835338
Trichloroethene	U		0.000398	0.00100	1	12/21/2015 20:39	WG835338
Trichlorofluoromethane	U		0.00120	0.00500	1	12/21/2015 20:39	WG835338
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/21/2015 20:39	WG835338
1,2,4-Trimethylbenzene	0.116		0.000373	0.00100	1	12/21/2015 20:39	WG835338
1,2,3-Trimethylbenzene	0.0508		0.000321	0.00100	1	12/21/2015 20:39	WG835338
1,3,5-Trimethylbenzene	0.0410		0.000387	0.00100	1	12/21/2015 20:39	WG835338
Vinyl chloride	U		0.000259	0.00100	1	12/21/2015 20:39	WG835338
Xylenes, Total	0.185		0.00106	0.00300	1	12/21/2015 20:39	WG835338
(S) Toluene-d8	*108*			*90.0-115*		*12/21/2015 20:39*	WG835338
(S) Dibromofluoromethane	*98.6*			*79.0-121*		*12/21/2015 20:39*	WG835338
(S) 4-Bromofluorobenzene	*102*			*80.1-120*		*12/21/2015 20:39*	WG835338

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0137		0.0000140	0.0000500	1	12/15/2015 17:44	WG835278
Acenaphthene	0.227		0.000200	0.00100	20	12/16/2015 23:04	WG835278
Acenaphthylene	0.0746		0.0000120	0.0000500	1	12/15/2015 17:44	WG835278
Benzo(a)anthracene	0.00147		0.00000410	0.0000500	1	12/15/2015 17:44	WG835278
Benzo(a)pyrene	0.000862		0.0000116	0.0000500	1	12/15/2015 17:44	WG835278
Benzo(b)fluoranthene	0.000661		0.00000212	0.0000500	1	12/15/2015 17:44	WG835278
Benzo(g,h,i)perylene	0.000263		0.00000227	0.0000500	1	12/15/2015 17:44	WG835278
Benzo(k)fluoranthene	0.000196		0.0000136	0.0000500	1	12/15/2015 17:44	WG835278
Chrysene	0.00126		0.0000108	0.0000500	1	12/15/2015 17:44	WG835278
Dibenz(a,h)anthracene	0.000110		0.00000396	0.0000500	1	12/15/2015 17:44	WG835278
Fluoranthene	0.00495		0.0000157	0.0000500	1	12/15/2015 17:44	WG835278
Fluorene	0.0677		0.00000850	0.0000500	1	12/15/2015 17:44	WG835278
Indeno(1,2,3-cd)pyrene	0.000223		0.0000148	0.0000500	1	12/15/2015 17:44	WG835278
Naphthalene	1.16		0.000396	0.00500	20	12/16/2015 23:04	WG835278
Phenanthrene	0.0789		0.00000820	0.0000500	1	12/15/2015 17:44	WG835278
Pyrene	0.00672		0.0000117	0.0000500	1	12/15/2015 17:44	WG835278
1-Methylnaphthalene	0.786		0.000164	0.00500	20	12/16/2015 23:04	WG835278
2-Methylnaphthalene	0.254		0.000180	0.00500	20	12/16/2015 23:04	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 17:44	WG835278
(S) Nitrobenzene-d5	*56.0*	J7		*33.8-179*		*12/16/2015 23:04*	WG835278
(S) 2-Fluorobiphenyl	*79.2*			*55.5-150*		*12/15/2015 17:44*	WG835278
(S) p-Terphenyl-d14	*69.5*			*46.2-163*		*12/15/2015 17:44*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	12/22/2015 06:22	WG835338
Acrolein	U	J4	0.00887	0.0500	1	12/22/2015 06:22	WG835338
Acrylonitrile	U		0.00187	0.0100	1	12/22/2015 06:22	WG835338
Benzene	U		0.000331	0.00100	1	12/22/2015 06:22	WG835338
Bromobenzene	U		0.000352	0.00100	1	12/22/2015 06:22	WG835338
Bromodichloromethane	U		0.000380	0.00100	1	12/22/2015 06:22	WG835338
Bromoform	U		0.000469	0.00100	1	12/22/2015 06:22	WG835338
Bromomethane	U		0.000866	0.00500	1	12/22/2015 06:22	WG835338
n-Butylbenzene	U	J3	0.000361	0.00100	1	12/22/2015 06:22	WG835338
sec-Butylbenzene	U		0.000365	0.00100	1	12/22/2015 06:22	WG835338
tert-Butylbenzene	U	J3	0.000399	0.00100	1	12/22/2015 06:22	WG835338
Carbon tetrachloride	U		0.000379	0.00100	1	12/22/2015 06:22	WG835338
Chlorobenzene	U		0.000348	0.00100	1	12/22/2015 06:22	WG835338
Chlorodibromomethane	U		0.000327	0.00100	1	12/22/2015 06:22	WG835338
Chloroethane	U		0.000453	0.00500	1	12/22/2015 06:22	WG835338
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/22/2015 06:22	WG835338
Chloroform	U		0.000324	0.00500	1	12/22/2015 06:22	WG835338
Chloromethane	U		0.000276	0.00250	1	12/22/2015 06:22	WG835338
2-Chlorotoluene	U		0.000375	0.00100	1	12/22/2015 06:22	WG835338
4-Chlorotoluene	U		0.000351	0.00100	1	12/22/2015 06:22	WG835338
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/22/2015 06:22	WG835338
1,2-Dibromoethane	U		0.000381	0.00100	1	12/22/2015 06:22	WG835338
Dibromomethane	U		0.000346	0.00100	1	12/22/2015 06:22	WG835338
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/22/2015 06:22	WG835338
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/22/2015 06:22	WG835338
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/22/2015 06:22	WG835338
Dichlorodifluoromethane	U	J3	0.000551	0.00500	1	12/22/2015 06:22	WG835338
1,1-Dichloroethane	U		0.000259	0.00100	1	12/22/2015 06:22	WG835338
1,2-Dichloroethane	U		0.000361	0.00100	1	12/22/2015 06:22	WG835338
1,1-Dichloroethene	U		0.000398	0.00100	1	12/22/2015 06:22	WG835338
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/22/2015 06:22	WG835338
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/22/2015 06:22	WG835338
1,2-Dichloropropane	U		0.000306	0.00100	1	12/22/2015 06:22	WG835338
1,1-Dichloropropene	U		0.000352	0.00100	1	12/22/2015 06:22	WG835338
1,3-Dichloropropane	U		0.000366	0.00100	1	12/22/2015 06:22	WG835338
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/22/2015 06:22	WG835338
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/22/2015 06:22	WG835338
2,2-Dichloropropane	U		0.000321	0.00100	1	12/22/2015 06:22	WG835338
Di-isopropyl ether	U		0.000320	0.00100	1	12/22/2015 06:22	WG835338
Ethylbenzene	U		0.000384	0.00100	1	12/22/2015 06:22	WG835338
Hexachloro-1,3-butadiene	U	J3	0.000256	0.00100	1	12/22/2015 06:22	WG835338
Isopropylbenzene	U		0.000326	0.00100	1	12/22/2015 06:22	WG835338
p-Isopropyltoluene	U		0.000350	0.00100	1	12/22/2015 06:22	WG835338
2-Butanone (MEK)	U		0.00393	0.0100	1	12/22/2015 06:22	WG835338
Methylene Chloride	U		0.00100	0.00500	1	12/22/2015 06:22	WG835338
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/22/2015 06:22	WG835338
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/22/2015 06:22	WG835338
Naphthalene	0.00101	J J3	0.00100	0.00500	1	12/22/2015 06:22	WG835338
n-Propylbenzene	U		0.000349	0.00100	1	12/22/2015 06:22	WG835338
Styrene	U		0.000307	0.00100	1	12/22/2015 06:22	WG835338
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/22/2015 06:22	WG835338
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/22/2015 06:22	WG835338
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/22/2015 06:22	WG835338
Tetrachloroethene	U		0.000372	0.00100	1	12/22/2015 06:22	WG835338
Toluene	U		0.000780	0.00500	1	12/22/2015 06:22	WG835338
1,2,3-Trichlorobenzene	U	J3 J4	0.000230	0.00100	1	12/22/2015 06:22	WG835338

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U	J3	0.000355	0.00100	1	12/22/2015 06:22	WG835338
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/22/2015 06:22	WG835338
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/22/2015 06:22	WG835338
Trichloroethene	U		0.000398	0.00100	1	12/22/2015 06:22	WG835338
Trichlorofluoromethane	U		0.00120	0.00500	1	12/22/2015 06:22	WG835338
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/22/2015 06:22	WG835338
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	12/22/2015 06:22	WG835338
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	12/22/2015 06:22	WG835338
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	12/22/2015 06:22	WG835338
Vinyl chloride	U		0.000259	0.00100	1	12/22/2015 06:22	WG835338
Xylenes, Total	U		0.00106	0.00300	1	12/22/2015 06:22	WG835338
(S) Toluene-d8	*101*			*90.0-115*		*12/22/2015 06:22*	WG835338
(S) Dibromofluoromethane	*101*			*79.0-121*		*12/22/2015 06:22*	WG835338
(S) 4-Bromofluorobenzene	*104*			*80.1-120*		*12/22/2015 06:22*	WG835338

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0000220	J	0.0000140	0.0000500	1	12/15/2015 18:06	WG835278
Acenaphthene	0.000158		0.0000100	0.0000500	1	12/15/2015 18:06	WG835278
Acenaphthylene	0.0000549		0.0000120	0.0000500	1	12/15/2015 18:06	WG835278
Benzo(a)anthracene	U		0.00000410	0.0000500	1	12/15/2015 18:06	WG835278
Benzo(a)pyrene	U		0.0000116	0.0000500	1	12/15/2015 18:06	WG835278
Benzo(b)fluoranthene	0.00000622	J	0.00000212	0.0000500	1	12/15/2015 18:06	WG835278
Benzo(g,h,i)perylene	0.0000229	J	0.00000227	0.0000500	1	12/15/2015 18:06	WG835278
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	12/15/2015 18:06	WG835278
Chrysene	U		0.0000108	0.0000500	1	12/15/2015 18:06	WG835278
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	12/15/2015 18:06	WG835278
Fluoranthene	U		0.0000157	0.0000500	1	12/15/2015 18:06	WG835278
Fluorene	0.0000605		0.00000850	0.0000500	1	12/15/2015 18:06	WG835278
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	12/15/2015 18:06	WG835278
Naphthalene	0.000902		0.0000198	0.000250	1	12/15/2015 18:06	WG835278
Phenanthrene	0.0000573		0.00000820	0.0000500	1	12/15/2015 18:06	WG835278
Pyrene	0.0000195	J	0.0000117	0.0000500	1	12/15/2015 18:06	WG835278
1-Methylnaphthalene	0.000523		0.00000821	0.000250	1	12/15/2015 18:06	WG835278
2-Methylnaphthalene	0.000183	J	0.00000902	0.000250	1	12/15/2015 18:06	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 18:06	WG835278
(S) Nitrobenzene-d5	*93.2*			*33.8-179*		*12/15/2015 18:06*	WG835278
(S) 2-Fluorobiphenyl	*78.4*			*55.5-150*		*12/15/2015 18:06*	WG835278
(S) p-Terphenyl-d14	*67.5*			*46.2-163*		*12/15/2015 18:06*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	12/22/2015 06:40	WG835338
Acrolein	U	J4	0.00887	0.0500	1	12/22/2015 06:40	WG835338
Acrylonitrile	U		0.00187	0.0100	1	12/22/2015 06:40	WG835338
Benzene	U		0.000331	0.00100	1	12/22/2015 06:40	WG835338
Bromobenzene	U		0.000352	0.00100	1	12/22/2015 06:40	WG835338
Bromodichloromethane	U		0.000380	0.00100	1	12/22/2015 06:40	WG835338
Bromoform	U		0.000469	0.00100	1	12/22/2015 06:40	WG835338
Bromomethane	U		0.000866	0.00500	1	12/22/2015 06:40	WG835338
n-Butylbenzene	U	J3	0.000361	0.00100	1	12/22/2015 06:40	WG835338
sec-Butylbenzene	U		0.000365	0.00100	1	12/22/2015 06:40	WG835338
tert-Butylbenzene	U	J3	0.000399	0.00100	1	12/22/2015 06:40	WG835338
Carbon tetrachloride	U		0.000379	0.00100	1	12/22/2015 06:40	WG835338
Chlorobenzene	U		0.000348	0.00100	1	12/22/2015 06:40	WG835338
Chlorodibromomethane	U		0.000327	0.00100	1	12/22/2015 06:40	WG835338
Chloroethane	U		0.000453	0.00500	1	12/22/2015 06:40	WG835338
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/22/2015 06:40	WG835338
Chloroform	U		0.000324	0.00500	1	12/22/2015 06:40	WG835338
Chloromethane	U		0.000276	0.00250	1	12/22/2015 06:40	WG835338
2-Chlorotoluene	U		0.000375	0.00100	1	12/22/2015 06:40	WG835338
4-Chlorotoluene	U		0.000351	0.00100	1	12/22/2015 06:40	WG835338
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/22/2015 06:40	WG835338
1,2-Dibromoethane	U		0.000381	0.00100	1	12/22/2015 06:40	WG835338
Dibromomethane	U		0.000346	0.00100	1	12/22/2015 06:40	WG835338
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/22/2015 06:40	WG835338
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/22/2015 06:40	WG835338
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/22/2015 06:40	WG835338
Dichlorodifluoromethane	U	J3	0.000551	0.00500	1	12/22/2015 06:40	WG835338
1,1-Dichloroethane	U		0.000259	0.00100	1	12/22/2015 06:40	WG835338
1,2-Dichloroethane	U		0.000361	0.00100	1	12/22/2015 06:40	WG835338
1,1-Dichloroethene	U		0.000398	0.00100	1	12/22/2015 06:40	WG835338
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/22/2015 06:40	WG835338
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/22/2015 06:40	WG835338
1,2-Dichloropropane	U		0.000306	0.00100	1	12/22/2015 06:40	WG835338
1,1-Dichloropropene	U		0.000352	0.00100	1	12/22/2015 06:40	WG835338
1,3-Dichloropropane	U		0.000366	0.00100	1	12/22/2015 06:40	WG835338
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/22/2015 06:40	WG835338
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/22/2015 06:40	WG835338
2,2-Dichloropropane	U		0.000321	0.00100	1	12/22/2015 06:40	WG835338
Di-isopropyl ether	U		0.000320	0.00100	1	12/22/2015 06:40	WG835338
Ethylbenzene	U		0.000384	0.00100	1	12/22/2015 06:40	WG835338
Hexachloro-1,3-butadiene	U	J3	0.000256	0.00100	1	12/22/2015 06:40	WG835338
Isopropylbenzene	0.000339	J	0.000326	0.00100	1	12/22/2015 06:40	WG835338
p-Isopropyltoluene	U		0.000350	0.00100	1	12/22/2015 06:40	WG835338
2-Butanone (MEK)	U		0.00393	0.0100	1	12/22/2015 06:40	WG835338
Methylene Chloride	U		0.00100	0.00500	1	12/22/2015 06:40	WG835338
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/22/2015 06:40	WG835338
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/22/2015 06:40	WG835338
Naphthalene	0.00103	J J3	0.00100	0.00500	1	12/22/2015 06:40	WG835338
n-Propylbenzene	U		0.000349	0.00100	1	12/22/2015 06:40	WG835338
Styrene	U		0.000307	0.00100	1	12/22/2015 06:40	WG835338
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/22/2015 06:40	WG835338
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/22/2015 06:40	WG835338
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/22/2015 06:40	WG835338
Tetrachloroethene	U		0.000372	0.00100	1	12/22/2015 06:40	WG835338
Toluene	U		0.000780	0.00500	1	12/22/2015 06:40	WG835338
1,2,3-Trichlorobenzene	U	J3 J4	0.000230	0.00100	1	12/22/2015 06:40	WG835338

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U	J3	0.000355	0.00100	1	12/22/2015 06:40	WG835338
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/22/2015 06:40	WG835338
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/22/2015 06:40	WG835338
Trichloroethene	U		0.000398	0.00100	1	12/22/2015 06:40	WG835338
Trichlorofluoromethane	U		0.00120	0.00500	1	12/22/2015 06:40	WG835338
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/22/2015 06:40	WG835338
1,2,4-Trimethylbenzene	0.000725	J	0.000373	0.00100	1	12/22/2015 06:40	WG835338
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	12/22/2015 06:40	WG835338
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	12/22/2015 06:40	WG835338
Vinyl chloride	U		0.000259	0.00100	1	12/22/2015 06:40	WG835338
Xylenes, Total	U		0.00106	0.00300	1	12/22/2015 06:40	WG835338
(S) Toluene-d8	*100*			*90.0-115*		*12/22/2015 06:40*	WG835338
(S) Dibromofluoromethane	*100*			*79.0-121*		*12/22/2015 06:40*	WG835338
(S) 4-Bromofluorobenzene	*99.7*			*80.1-120*		*12/22/2015 06:40*	WG835338

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00355		0.0000140	0.0000500	1	12/15/2015 18:28	WG835278
Acenaphthene	0.00644		0.0000100	0.0000500	1	12/15/2015 18:28	WG835278
Acenaphthylene	0.0125		0.0000120	0.0000500	1	12/15/2015 18:28	WG835278
Benzo(a)anthracene	0.00150		0.00000410	0.0000500	1	12/15/2015 18:28	WG835278
Benzo(a)pyrene	0.00150		0.0000116	0.0000500	1	12/15/2015 18:28	WG835278
Benzo(b)fluoranthene	0.00110		0.00000212	0.0000500	1	12/15/2015 18:28	WG835278
Benzo(g,h,i)perylene	0.000631		0.00000227	0.0000500	1	12/15/2015 18:28	WG835278
Benzo(k)fluoranthene	0.000279		0.0000136	0.0000500	1	12/15/2015 18:28	WG835278
Chrysene	0.00108		0.0000108	0.0000500	1	12/15/2015 18:28	WG835278
Dibenz(a,h)anthracene	0.000170		0.00000396	0.0000500	1	12/15/2015 18:28	WG835278
Fluoranthene	0.00307		0.0000157	0.0000500	1	12/15/2015 18:28	WG835278
Fluorene	0.00448		0.00000850	0.0000500	1	12/15/2015 18:28	WG835278
Indeno(1,2,3-cd)pyrene	0.000502		0.0000148	0.0000500	1	12/15/2015 18:28	WG835278
Naphthalene	0.000649		0.0000198	0.000250	1	12/15/2015 18:28	WG835278
Phenanthrene	0.0108		0.00000820	0.0000500	1	12/15/2015 18:28	WG835278
Pyrene	0.00623		0.0000117	0.0000500	1	12/15/2015 18:28	WG835278
1-Methylnaphthalene	0.0184		0.00000821	0.000250	1	12/15/2015 18:28	WG835278
2-Methylnaphthalene	0.000177	J	0.00000902	0.000250	1	12/15/2015 18:28	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 18:28	WG835278
(S) Nitrobenzene-d5	*100*			*33.8-179*		*12/15/2015 18:28*	WG835278
(S) 2-Fluorobiphenyl	*78.9*			*55.5-150*		*12/15/2015 18:28*	WG835278
(S) p-Terphenyl-d14	*68.7*			*46.2-163*		*12/15/2015 18:28*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	12/21/2015 19:10	WG835338
Acrolein	U	J4	0.00887	0.0500	1	12/21/2015 19:10	WG835338
Acrylonitrile	U		0.00187	0.0100	1	12/21/2015 19:10	WG835338
Benzene	U		0.000331	0.00100	1	12/21/2015 19:10	WG835338
Bromobenzene	U		0.000352	0.00100	1	12/21/2015 19:10	WG835338
Bromodichloromethane	U		0.000380	0.00100	1	12/21/2015 19:10	WG835338
Bromoform	U		0.000469	0.00100	1	12/21/2015 19:10	WG835338
Bromomethane	U		0.000866	0.00500	1	12/21/2015 19:10	WG835338
n-Butylbenzene	U		0.000361	0.00100	1	12/21/2015 19:10	WG835338
sec-Butylbenzene	U		0.000365	0.00100	1	12/21/2015 19:10	WG835338
tert-Butylbenzene	U		0.000399	0.00100	1	12/21/2015 19:10	WG835338
Carbon tetrachloride	U		0.000379	0.00100	1	12/21/2015 19:10	WG835338
Chlorobenzene	U		0.000348	0.00100	1	12/21/2015 19:10	WG835338
Chlorodibromomethane	U		0.000327	0.00100	1	12/21/2015 19:10	WG835338
Chloroethane	U		0.000453	0.00500	1	12/21/2015 19:10	WG835338
2-Chloroethyl vinyl ether	U	J3	0.00301	0.0500	1	12/21/2015 19:10	WG835338
Chloroform	U		0.000324	0.00500	1	12/21/2015 19:10	WG835338
Chloromethane	U		0.000276	0.00250	1	12/21/2015 19:10	WG835338
2-Chlorotoluene	U		0.000375	0.00100	1	12/21/2015 19:10	WG835338
4-Chlorotoluene	U		0.000351	0.00100	1	12/21/2015 19:10	WG835338
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/21/2015 19:10	WG835338
1,2-Dibromoethane	U		0.000381	0.00100	1	12/21/2015 19:10	WG835338
Dibromomethane	U		0.000346	0.00100	1	12/21/2015 19:10	WG835338
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/21/2015 19:10	WG835338
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/21/2015 19:10	WG835338
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/21/2015 19:10	WG835338
Dichlorodifluoromethane	U		0.000551	0.00500	1	12/21/2015 19:10	WG835338
1,1-Dichloroethane	U		0.000259	0.00100	1	12/21/2015 19:10	WG835338
1,2-Dichloroethane	U		0.000361	0.00100	1	12/21/2015 19:10	WG835338
1,1-Dichloroethene	U		0.000398	0.00100	1	12/21/2015 19:10	WG835338
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/21/2015 19:10	WG835338
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/21/2015 19:10	WG835338
1,2-Dichloropropane	U		0.000306	0.00100	1	12/21/2015 19:10	WG835338
1,1-Dichloropropene	U		0.000352	0.00100	1	12/21/2015 19:10	WG835338
1,3-Dichloropropane	U		0.000366	0.00100	1	12/21/2015 19:10	WG835338
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/21/2015 19:10	WG835338
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/21/2015 19:10	WG835338
2,2-Dichloropropane	U		0.000321	0.00100	1	12/21/2015 19:10	WG835338
Di-isopropyl ether	U		0.000320	0.00100	1	12/21/2015 19:10	WG835338
Ethylbenzene	0.00401		0.000384	0.00100	1	12/21/2015 19:10	WG835338
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	12/21/2015 19:10	WG835338
Isopropylbenzene	0.00124		0.000326	0.00100	1	12/21/2015 19:10	WG835338
p-Isopropyltoluene	U		0.000350	0.00100	1	12/21/2015 19:10	WG835338
2-Butanone (MEK)	U		0.00393	0.0100	1	12/21/2015 19:10	WG835338
Methylene Chloride	U		0.00100	0.00500	1	12/21/2015 19:10	WG835338
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/21/2015 19:10	WG835338
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/21/2015 19:10	WG835338
Naphthalene	0.0521		0.00100	0.00500	1	12/21/2015 19:10	WG835338
n-Propylbenzene	0.000553	J	0.000349	0.00100	1	12/21/2015 19:10	WG835338
Styrene	0.000507	J	0.000307	0.00100	1	12/21/2015 19:10	WG835338
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/21/2015 19:10	WG835338
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/21/2015 19:10	WG835338
1,1,2-Trichlorotrifluoroethane	U	J3 J5	0.000303	0.00100	1	12/21/2015 19:10	WG835338
Tetrachloroethene	U		0.000372	0.00100	1	12/21/2015 19:10	WG835338
Toluene	U		0.000780	0.00500	1	12/21/2015 19:10	WG835338
1,2,3-Trichlorobenzene	U	J4	0.000230	0.00100	1	12/21/2015 19:10	WG835338

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	12/21/2015 19:10	WG835338
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/21/2015 19:10	WG835338
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/21/2015 19:10	WG835338
Trichloroethene	U		0.000398	0.00100	1	12/21/2015 19:10	WG835338
Trichlorofluoromethane	U		0.00120	0.00500	1	12/21/2015 19:10	WG835338
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/21/2015 19:10	WG835338
1,2,4-Trimethylbenzene	0.00563		0.000373	0.00100	1	12/21/2015 19:10	WG835338
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	12/21/2015 19:10	WG835338
1,3,5-Trimethylbenzene	0.00164		0.000387	0.00100	1	12/21/2015 19:10	WG835338
Vinyl chloride	U		0.000259	0.00100	1	12/21/2015 19:10	WG835338
Xylenes, Total	0.00335		0.00106	0.00300	1	12/21/2015 19:10	WG835338
(S) Toluene-d8	*104*			*90.0-115*		*12/21/2015 19:10*	WG835338
(S) Dibromofluoromethane	*99.3*			*79.0-121*		*12/21/2015 19:10*	WG835338
(S) 4-Bromofluorobenzene	*106*			*80.1-120*		*12/21/2015 19:10*	WG835338

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0136		0.0000140	0.0000500	1	12/15/2015 18:49	WG835278
Acenaphthene	0.0584	V	0.0000100	0.0000500	1	12/15/2015 18:49	WG835278
Acenaphthylene	0.0381		0.0000120	0.0000500	1	12/15/2015 18:49	WG835278
Benzo(a)anthracene	0.000925		0.00000410	0.0000500	1	12/15/2015 18:49	WG835278
Benzo(a)pyrene	0.000495		0.0000116	0.0000500	1	12/15/2015 18:49	WG835278
Benzo(b)fluoranthene	0.000370		0.00000212	0.0000500	1	12/15/2015 18:49	WG835278
Benzo(g,h,i)perylene	0.000171	J6	0.00000227	0.0000500	1	12/15/2015 18:49	WG835278
Benzo(k)fluoranthene	0.000107		0.0000136	0.0000500	1	12/15/2015 18:49	WG835278
Chrysene	0.000769		0.0000108	0.0000500	1	12/15/2015 18:49	WG835278
Dibenz(a,h)anthracene	0.0000424	J	0.00000396	0.0000500	1	12/15/2015 18:49	WG835278
Fluoranthene	0.00741		0.0000157	0.0000500	1	12/15/2015 18:49	WG835278
Fluorene	0.0398	V	0.00000850	0.0000500	1	12/15/2015 18:49	WG835278
Indeno(1,2,3-cd)pyrene	0.000138	J6	0.0000148	0.0000500	1	12/15/2015 18:49	WG835278
Naphthalene	0.0844	V	0.0000198	0.000250	1	12/15/2015 18:49	WG835278
Phenanthrene	0.0818	V	0.00000820	0.0000500	1	12/15/2015 18:49	WG835278
Pyrene	0.0107		0.0000117	0.0000500	1	12/15/2015 18:49	WG835278
1-Methylnaphthalene	0.141		0.000164	0.00500	20	12/16/2015 23:26	WG835278
2-Methylnaphthalene	0.00423	J6	0.00000902	0.000250	1	12/15/2015 18:49	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 18:49	WG835278
(S) Nitrobenzene-d5	*91.9*			*33.8-179*		*12/15/2015 18:49*	WG835278
(S) 2-Fluorobiphenyl	*73.5*			*55.5-150*		*12/15/2015 18:49*	WG835278
(S) p-Terphenyl-d14	*66.0*			*46.2-163*		*12/15/2015 18:49*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	12/22/2015 06:59	WG835338
Acrolein	U	J4	0.00887	0.0500	1	12/22/2015 06:59	WG835338
Acrylonitrile	U		0.00187	0.0100	1	12/22/2015 06:59	WG835338
Benzene	0.0850		0.000331	0.00100	1	12/22/2015 06:59	WG835338
Bromobenzene	U		0.000352	0.00100	1	12/22/2015 06:59	WG835338
Bromodichloromethane	U		0.000380	0.00100	1	12/22/2015 06:59	WG835338
Bromoform	U		0.000469	0.00100	1	12/22/2015 06:59	WG835338
Bromomethane	U		0.000866	0.00500	1	12/22/2015 06:59	WG835338
n-Butylbenzene	0.000671	J J3	0.000361	0.00100	1	12/22/2015 06:59	WG835338
sec-Butylbenzene	U		0.000365	0.00100	1	12/22/2015 06:59	WG835338
tert-Butylbenzene	U	J3	0.000399	0.00100	1	12/22/2015 06:59	WG835338
Carbon tetrachloride	U		0.000379	0.00100	1	12/22/2015 06:59	WG835338
Chlorobenzene	U		0.000348	0.00100	1	12/22/2015 06:59	WG835338
Chlorodibromomethane	U		0.000327	0.00100	1	12/22/2015 06:59	WG835338
Chloroethane	U		0.000453	0.00500	1	12/22/2015 06:59	WG835338
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/22/2015 06:59	WG835338
Chloroform	U		0.000324	0.00500	1	12/22/2015 06:59	WG835338
Chloromethane	U		0.000276	0.00250	1	12/22/2015 06:59	WG835338
2-Chlorotoluene	U		0.000375	0.00100	1	12/22/2015 06:59	WG835338
4-Chlorotoluene	U		0.000351	0.00100	1	12/22/2015 06:59	WG835338
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/22/2015 06:59	WG835338
1,2-Dibromoethane	U		0.000381	0.00100	1	12/22/2015 06:59	WG835338
Dibromomethane	U		0.000346	0.00100	1	12/22/2015 06:59	WG835338
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/22/2015 06:59	WG835338
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/22/2015 06:59	WG835338
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/22/2015 06:59	WG835338
Dichlorodifluoromethane	U	J3	0.000551	0.00500	1	12/22/2015 06:59	WG835338
1,1-Dichloroethane	U		0.000259	0.00100	1	12/22/2015 06:59	WG835338
1,2-Dichloroethane	U		0.000361	0.00100	1	12/22/2015 06:59	WG835338
1,1-Dichloroethene	U		0.000398	0.00100	1	12/22/2015 06:59	WG835338
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/22/2015 06:59	WG835338
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/22/2015 06:59	WG835338
1,2-Dichloropropane	U		0.000306	0.00100	1	12/22/2015 06:59	WG835338
1,1-Dichloropropene	U		0.000352	0.00100	1	12/22/2015 06:59	WG835338
1,3-Dichloropropane	U		0.000366	0.00100	1	12/22/2015 06:59	WG835338
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/22/2015 06:59	WG835338
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/22/2015 06:59	WG835338
2,2-Dichloropropane	U		0.000321	0.00100	1	12/22/2015 06:59	WG835338
Di-isopropyl ether	U		0.000320	0.00100	1	12/22/2015 06:59	WG835338
Ethylbenzene	0.0793		0.000384	0.00100	1	12/22/2015 06:59	WG835338
Hexachloro-1,3-butadiene	U	J3	0.000256	0.00100	1	12/22/2015 06:59	WG835338
Isopropylbenzene	0.0168		0.000326	0.00100	1	12/22/2015 06:59	WG835338
p-Isopropyltoluene	0.000411	J	0.000350	0.00100	1	12/22/2015 06:59	WG835338
2-Butanone (MEK)	U		0.00393	0.0100	1	12/22/2015 06:59	WG835338
Methylene Chloride	U		0.00100	0.00500	1	12/22/2015 06:59	WG835338
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/22/2015 06:59	WG835338
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/22/2015 06:59	WG835338
Naphthalene	0.243		0.00500	0.0250	5	12/23/2015 03:39	WG837923
n-Propylbenzene	0.00277		0.000349	0.00100	1	12/22/2015 06:59	WG835338
Styrene	U		0.000307	0.00100	1	12/22/2015 06:59	WG835338
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/22/2015 06:59	WG835338
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/22/2015 06:59	WG835338
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/22/2015 06:59	WG835338
Tetrachloroethene	U		0.000372	0.00100	1	12/22/2015 06:59	WG835338
Toluene	0.00641		0.000780	0.00500	1	12/22/2015 06:59	WG835338
1,2,3-Trichlorobenzene	U	J3 J4	0.000230	0.00100	1	12/22/2015 06:59	WG835338

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U	J3	0.000355	0.00100	1	12/22/2015 06:59	WG835338
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/22/2015 06:59	WG835338
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/22/2015 06:59	WG835338
Trichloroethene	U		0.000398	0.00100	1	12/22/2015 06:59	WG835338
Trichlorofluoromethane	U		0.00120	0.00500	1	12/22/2015 06:59	WG835338
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/22/2015 06:59	WG835338
1,2,4-Trimethylbenzene	0.0284		0.000373	0.00100	1	12/22/2015 06:59	WG835338
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	12/22/2015 06:59	WG835338
1,3,5-Trimethylbenzene	0.00621		0.000387	0.00100	1	12/22/2015 06:59	WG835338
Vinyl chloride	U		0.000259	0.00100	1	12/22/2015 06:59	WG835338
Xylenes, Total	0.0684		0.00106	0.00300	1	12/22/2015 06:59	WG835338
(S) Toluene-d8	*102*			*90.0-115*		*12/22/2015 06:59*	WG835338
(S) Dibromofluoromethane	*100*			*79.0-121*		*12/22/2015 06:59*	WG835338
(S) 4-Bromofluorobenzene	*102*			*80.1-120*		*12/22/2015 06:59*	WG835338

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00851		0.0000140	0.0000500	1	12/15/2015 19:54	WG835278
Acenaphthene	0.136		0.000200	0.00100	20	12/16/2015 23:48	WG835278
Acenaphthylene	0.0395		0.0000120	0.0000500	1	12/15/2015 19:54	WG835278
Benzo(a)anthracene	0.000132		0.00000410	0.0000500	1	12/15/2015 19:54	WG835278
Benzo(a)pyrene	0.0000243	J	0.0000116	0.0000500	1	12/15/2015 19:54	WG835278
Benzo(b)fluoranthene	0.0000207	J	0.00000212	0.0000500	1	12/15/2015 19:54	WG835278
Benzo(g,h,i)perylene	0.0000136	J	0.00000227	0.0000500	1	12/15/2015 19:54	WG835278
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	12/15/2015 19:54	WG835278
Chrysene	0.0000999		0.0000108	0.0000500	1	12/15/2015 19:54	WG835278
Dibenz(a,h)anthracene	0.00000504	J	0.00000396	0.0000500	1	12/15/2015 19:54	WG835278
Fluoranthene	0.00264		0.0000157	0.0000500	1	12/15/2015 19:54	WG835278
Fluorene	0.0260		0.00000850	0.0000500	1	12/15/2015 19:54	WG835278
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	12/15/2015 19:54	WG835278
Naphthalene	0.0480		0.0000198	0.000250	1	12/15/2015 19:54	WG835278
Phenanthrene	0.0408		0.00000820	0.0000500	1	12/15/2015 19:54	WG835278
Pyrene	0.00361		0.0000117	0.0000500	1	12/15/2015 19:54	WG835278
1-Methylnaphthalene	0.443		0.000164	0.00500	20	12/16/2015 23:48	WG835278
2-Methylnaphthalene	0.000953		0.00000902	0.000250	1	12/15/2015 19:54	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 19:54	WG835278
(S) Nitrobenzene-d5	*76.5*			*33.8-179*		*12/15/2015 19:54*	WG835278
(S) 2-Fluorobiphenyl	*76.4*			*55.5-150*		*12/15/2015 19:54*	WG835278
(S) p-Terphenyl-d14	*64.1*			*46.2-163*		*12/15/2015 19:54*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	12/22/2015 07:17	WG835338
Acrolein	U	J4	0.00887	0.0500	1	12/22/2015 07:17	WG835338
Acrylonitrile	U		0.00187	0.0100	1	12/22/2015 07:17	WG835338
Benzene	0.00104		0.000331	0.00100	1	12/22/2015 07:17	WG835338
Bromobenzene	U		0.000352	0.00100	1	12/22/2015 07:17	WG835338
Bromodichloromethane	U		0.000380	0.00100	1	12/22/2015 07:17	WG835338
Bromoform	U		0.000469	0.00100	1	12/22/2015 07:17	WG835338
Bromomethane	U		0.000866	0.00500	1	12/22/2015 07:17	WG835338
n-Butylbenzene	U	J3	0.000361	0.00100	1	12/22/2015 07:17	WG835338
sec-Butylbenzene	U		0.000365	0.00100	1	12/22/2015 07:17	WG835338
tert-Butylbenzene	U	J3	0.000399	0.00100	1	12/22/2015 07:17	WG835338
Carbon tetrachloride	U		0.000379	0.00100	1	12/22/2015 07:17	WG835338
Chlorobenzene	U		0.000348	0.00100	1	12/22/2015 07:17	WG835338
Chlorodibromomethane	U		0.000327	0.00100	1	12/22/2015 07:17	WG835338
Chloroethane	U		0.000453	0.00500	1	12/22/2015 07:17	WG835338
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/22/2015 07:17	WG835338
Chloroform	U		0.000324	0.00500	1	12/22/2015 07:17	WG835338
Chloromethane	U		0.000276	0.00250	1	12/22/2015 07:17	WG835338
2-Chlorotoluene	U		0.000375	0.00100	1	12/22/2015 07:17	WG835338
4-Chlorotoluene	U		0.000351	0.00100	1	12/22/2015 07:17	WG835338
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/22/2015 07:17	WG835338
1,2-Dibromoethane	U		0.000381	0.00100	1	12/22/2015 07:17	WG835338
Dibromomethane	U		0.000346	0.00100	1	12/22/2015 07:17	WG835338
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/22/2015 07:17	WG835338
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/22/2015 07:17	WG835338
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/22/2015 07:17	WG835338
Dichlorodifluoromethane	U	J3	0.000551	0.00500	1	12/22/2015 07:17	WG835338
1,1-Dichloroethane	U		0.000259	0.00100	1	12/22/2015 07:17	WG835338
1,2-Dichloroethane	U		0.000361	0.00100	1	12/22/2015 07:17	WG835338
1,1-Dichloroethene	U		0.000398	0.00100	1	12/22/2015 07:17	WG835338
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/22/2015 07:17	WG835338
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/22/2015 07:17	WG835338
1,2-Dichloropropane	U		0.000306	0.00100	1	12/22/2015 07:17	WG835338
1,1-Dichloropropene	U		0.000352	0.00100	1	12/22/2015 07:17	WG835338
1,3-Dichloropropane	U		0.000366	0.00100	1	12/22/2015 07:17	WG835338
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/22/2015 07:17	WG835338
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/22/2015 07:17	WG835338
2,2-Dichloropropane	U		0.000321	0.00100	1	12/22/2015 07:17	WG835338
Di-isopropyl ether	U		0.000320	0.00100	1	12/22/2015 07:17	WG835338
Ethylbenzene	U		0.000384	0.00100	1	12/22/2015 07:17	WG835338
Hexachloro-1,3-butadiene	U	J3	0.000256	0.00100	1	12/22/2015 07:17	WG835338
Isopropylbenzene	0.000970	J	0.000326	0.00100	1	12/22/2015 07:17	WG835338
p-Isopropyltoluene	U		0.000350	0.00100	1	12/22/2015 07:17	WG835338
2-Butanone (MEK)	U		0.00393	0.0100	1	12/22/2015 07:17	WG835338
Methylene Chloride	U		0.00100	0.00500	1	12/22/2015 07:17	WG835338
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/22/2015 07:17	WG835338
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/22/2015 07:17	WG835338
Naphthalene	0.00710		0.00100	0.00500	1	12/23/2015 03:59	WG837923
n-Propylbenzene	U		0.000349	0.00100	1	12/22/2015 07:17	WG835338
Styrene	U		0.000307	0.00100	1	12/22/2015 07:17	WG835338
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/22/2015 07:17	WG835338
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/22/2015 07:17	WG835338
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/22/2015 07:17	WG835338
Tetrachloroethene	U		0.000372	0.00100	1	12/22/2015 07:17	WG835338
Toluene	U		0.000780	0.00500	1	12/22/2015 07:17	WG835338
1,2,3-Trichlorobenzene	U	J3 J4	0.000230	0.00100	1	12/22/2015 07:17	WG835338

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U	J3	0.000355	0.00100	1	12/22/2015 07:17	WG835338
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/22/2015 07:17	WG835338
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/22/2015 07:17	WG835338
Trichloroethene	U		0.000398	0.00100	1	12/22/2015 07:17	WG835338
Trichlorofluoromethane	U		0.00120	0.00500	1	12/22/2015 07:17	WG835338
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/22/2015 07:17	WG835338
1,2,4-Trimethylbenzene	0.00307		0.000373	0.00100	1	12/22/2015 07:17	WG835338
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	12/22/2015 07:17	WG835338
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	12/22/2015 07:17	WG835338
Vinyl chloride	U		0.000259	0.00100	1	12/22/2015 07:17	WG835338
Xylenes, Total	0.00371		0.00106	0.00300	1	12/22/2015 07:17	WG835338
(S) Toluene-d8	*103*			*90.0-115*		*12/22/2015 07:17*	WG835338
(S) Dibromofluoromethane	*97.5*			*79.0-121*		*12/22/2015 07:17*	WG835338
(S) 4-Bromofluorobenzene	*99.9*			*80.1-120*		*12/22/2015 07:17*	WG835338

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.000138		0.0000140	0.0000500	1	12/16/2015 22:55	WG835278
Acenaphthene	0.00496		0.0000100	0.0000500	1	12/16/2015 22:55	WG835278
Acenaphthylene	0.000507		0.0000120	0.0000500	1	12/16/2015 22:55	WG835278
Benzo(a)anthracene	0.0000680		0.00000410	0.0000500	1	12/16/2015 22:55	WG835278
Benzo(a)pyrene	0.0000324	J	0.0000116	0.0000500	1	12/16/2015 22:55	WG835278
Benzo(b)fluoranthene	0.0000358	J	0.00000212	0.0000500	1	12/16/2015 22:55	WG835278
Benzo(g,h,i)perylene	0.0000113	J	0.00000227	0.0000500	1	12/16/2015 22:55	WG835278
Benzo(k)fluoranthene	0.0000409	J	0.0000136	0.0000500	1	12/16/2015 22:55	WG835278
Chrysene	0.0000566		0.0000108	0.0000500	1	12/16/2015 22:55	WG835278
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	12/16/2015 22:55	WG835278
Fluoranthene	0.000268		0.0000157	0.0000500	1	12/16/2015 22:55	WG835278
Fluorene	0.000357		0.00000850	0.0000500	1	12/16/2015 22:55	WG835278
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	12/16/2015 22:55	WG835278
Naphthalene	0.000594		0.0000198	0.000250	1	12/16/2015 22:55	WG835278
Phenanthrene	0.000446		0.00000820	0.0000500	1	12/16/2015 22:55	WG835278
Pyrene	0.000318		0.0000117	0.0000500	1	12/16/2015 22:55	WG835278
1-Methylnaphthalene	0.0130		0.00000821	0.000250	1	12/16/2015 22:55	WG835278
2-Methylnaphthalene	0.000131	J	0.00000902	0.000250	1	12/16/2015 22:55	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/16/2015 22:55	WG835278
(S) Nitrobenzene-d5	*82.7*			*33.8-179*		*12/16/2015 22:55*	WG835278
(S) 2-Fluorobiphenyl	*81.1*			*55.5-150*		*12/16/2015 22:55*	WG835278
(S) p-Terphenyl-d14	*77.3*			*46.2-163*		*12/16/2015 22:55*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	12/22/2015 08:18	WG835338
Acrolein	U	J4	0.00887	0.0500	1	12/22/2015 08:18	WG835338
Acrylonitrile	U		0.00187	0.0100	1	12/22/2015 08:18	WG835338
Benzene	0.0101		0.000331	0.00100	1	12/22/2015 08:18	WG835338
Bromobenzene	U		0.000352	0.00100	1	12/22/2015 08:18	WG835338
Bromodichloromethane	U		0.000380	0.00100	1	12/22/2015 08:18	WG835338
Bromoform	U		0.000469	0.00100	1	12/22/2015 08:18	WG835338
Bromomethane	U		0.000866	0.00500	1	12/22/2015 08:18	WG835338
n-Butylbenzene	0.000844	J J3	0.000361	0.00100	1	12/22/2015 08:18	WG835338
sec-Butylbenzene	U		0.000365	0.00100	1	12/22/2015 08:18	WG835338
tert-Butylbenzene	U	J3	0.000399	0.00100	1	12/22/2015 08:18	WG835338
Carbon tetrachloride	U		0.000379	0.00100	1	12/22/2015 08:18	WG835338
Chlorobenzene	U		0.000348	0.00100	1	12/22/2015 08:18	WG835338
Chlorodibromomethane	U		0.000327	0.00100	1	12/22/2015 08:18	WG835338
Chloroethane	U		0.000453	0.00500	1	12/22/2015 08:18	WG835338
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/22/2015 08:18	WG835338
Chloroform	U		0.000324	0.00500	1	12/22/2015 08:18	WG835338
Chloromethane	U		0.000276	0.00250	1	12/22/2015 08:18	WG835338
2-Chlorotoluene	U		0.000375	0.00100	1	12/22/2015 08:18	WG835338
4-Chlorotoluene	U		0.000351	0.00100	1	12/22/2015 08:18	WG835338
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/22/2015 08:18	WG835338
1,2-Dibromoethane	U		0.000381	0.00100	1	12/22/2015 08:18	WG835338
Dibromomethane	U		0.000346	0.00100	1	12/22/2015 08:18	WG835338
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/22/2015 08:18	WG835338
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/22/2015 08:18	WG835338
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/22/2015 08:18	WG835338
Dichlorodifluoromethane	U	J3	0.000551	0.00500	1	12/22/2015 08:18	WG835338
1,1-Dichloroethane	U		0.000259	0.00100	1	12/22/2015 08:18	WG835338
1,2-Dichloroethane	U		0.000361	0.00100	1	12/22/2015 08:18	WG835338
1,1-Dichloroethene	U		0.000398	0.00100	1	12/22/2015 08:18	WG835338
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/22/2015 08:18	WG835338
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/22/2015 08:18	WG835338
1,2-Dichloropropane	U		0.000306	0.00100	1	12/22/2015 08:18	WG835338
1,1-Dichloropropene	U		0.000352	0.00100	1	12/22/2015 08:18	WG835338
1,3-Dichloropropane	U		0.000366	0.00100	1	12/22/2015 08:18	WG835338
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/22/2015 08:18	WG835338
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/22/2015 08:18	WG835338
2,2-Dichloropropane	U		0.000321	0.00100	1	12/22/2015 08:18	WG835338
Di-isopropyl ether	U		0.000320	0.00100	1	12/22/2015 08:18	WG835338
Ethylbenzene	0.0357		0.000384	0.00100	1	12/22/2015 08:18	WG835338
Hexachloro-1,3-butadiene	U	J3	0.000256	0.00100	1	12/22/2015 08:18	WG835338
Isopropylbenzene	0.0141		0.000326	0.00100	1	12/22/2015 08:18	WG835338
p-Isopropyltoluene	0.000410	J	0.000350	0.00100	1	12/22/2015 08:18	WG835338
2-Butanone (MEK)	U		0.00393	0.0100	1	12/22/2015 08:18	WG835338
Methylene Chloride	U		0.00100	0.00500	1	12/22/2015 08:18	WG835338
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/22/2015 08:18	WG835338
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/22/2015 08:18	WG835338
Naphthalene	0.354		0.00500	0.0250	5	12/23/2015 04:19	WG837923
n-Propylbenzene	0.00263		0.000349	0.00100	1	12/22/2015 08:18	WG835338
Styrene	U		0.000307	0.00100	1	12/22/2015 08:18	WG835338
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/22/2015 08:18	WG835338
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/22/2015 08:18	WG835338
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/22/2015 08:18	WG835338
Tetrachloroethene	U		0.000372	0.00100	1	12/22/2015 08:18	WG835338
Toluene	0.00527		0.000780	0.00500	1	12/22/2015 08:18	WG835338
1,2,3-Trichlorobenzene	U	J3 J4	0.000230	0.00100	1	12/22/2015 08:18	WG835338

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U	J3	0.000355	0.00100	1	12/22/2015 08:18	WG835338
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/22/2015 08:18	WG835338
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/22/2015 08:18	WG835338
Trichloroethene	U		0.000398	0.00100	1	12/22/2015 08:18	WG835338
Trichlorofluoromethane	U		0.00120	0.00500	1	12/22/2015 08:18	WG835338
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/22/2015 08:18	WG835338
1,2,4-Trimethylbenzene	0.0267		0.000373	0.00100	1	12/22/2015 08:18	WG835338
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	12/22/2015 08:18	WG835338
1,3,5-Trimethylbenzene	0.00602		0.000387	0.00100	1	12/22/2015 08:18	WG835338
Vinyl chloride	U		0.000259	0.00100	1	12/22/2015 08:18	WG835338
Xylenes, Total	0.0449		0.00106	0.00300	1	12/22/2015 08:18	WG835338
(S) Toluene-d8	*101*			*90.0-115*		*12/22/2015 08:18*	WG835338
(S) Dibromofluoromethane	*102*			*79.0-121*		*12/22/2015 08:18*	WG835338
(S) 4-Bromofluorobenzene	*103*			*80.1-120*		*12/22/2015 08:18*	WG835338

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00887		0.0000140	0.0000500	1	12/15/2015 20:37	WG835278
Acenaphthene	0.135		0.000200	0.00100	20	12/17/2015 00:09	WG835278
Acenaphthylene	0.0315		0.0000120	0.0000500	1	12/15/2015 20:37	WG835278
Benzo(a)anthracene	0.000102		0.00000410	0.0000500	1	12/15/2015 20:37	WG835278
Benzo(a)pyrene	U		0.0000116	0.0000500	1	12/15/2015 20:37	WG835278
Benzo(b)fluoranthene	0.00000409	J	0.00000212	0.0000500	1	12/15/2015 20:37	WG835278
Benzo(g,h,i)perylene	0.00000364	J	0.00000227	0.0000500	1	12/15/2015 20:37	WG835278
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	12/15/2015 20:37	WG835278
Chrysene	0.0000598		0.0000108	0.0000500	1	12/15/2015 20:37	WG835278
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	12/15/2015 20:37	WG835278
Fluoranthene	0.00296		0.0000157	0.0000500	1	12/15/2015 20:37	WG835278
Fluorene	U		0.00000850	0.0000500	1	12/15/2015 20:37	WG835278
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	12/15/2015 20:37	WG835278
Naphthalene	0.0674		0.0000198	0.000250	1	12/15/2015 20:37	WG835278
Phenanthrene	0.0382		0.00000820	0.0000500	1	12/15/2015 20:37	WG835278
Pyrene	0.00431		0.0000117	0.0000500	1	12/15/2015 20:37	WG835278
1-Methylnaphthalene	0.328		0.000164	0.00500	20	12/17/2015 00:09	WG835278
2-Methylnaphthalene	0.00860		0.00000902	0.000250	1	12/15/2015 20:37	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 20:37	WG835278
(S) Nitrobenzene-d5	*91.8*			*33.8-179*		*12/15/2015 20:37*	WG835278
(S) 2-Fluorobiphenyl	*75.9*			*55.5-150*		*12/15/2015 20:37*	WG835278
(S) p-Terphenyl-d14	*64.7*			*46.2-163*		*12/15/2015 20:37*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	12/23/2015 04:39	WG837923
Acrolein	U		0.00887	0.0500	1	12/23/2015 04:39	WG837923
Acrylonitrile	U		0.00187	0.0100	1	12/23/2015 04:39	WG837923
Benzene	U		0.000331	0.00100	1	12/23/2015 04:39	WG837923
Bromobenzene	U		0.000352	0.00100	1	12/23/2015 04:39	WG837923
Bromodichloromethane	U		0.000380	0.00100	1	12/23/2015 04:39	WG837923
Bromoform	U		0.000469	0.00100	1	12/23/2015 04:39	WG837923
Bromomethane	U		0.000866	0.00500	1	12/23/2015 04:39	WG837923
n-Butylbenzene	U		0.000361	0.00100	1	12/23/2015 04:39	WG837923
sec-Butylbenzene	U		0.000365	0.00100	1	12/23/2015 04:39	WG837923
tert-Butylbenzene	U		0.000399	0.00100	1	12/23/2015 04:39	WG837923
Carbon tetrachloride	U		0.000379	0.00100	1	12/23/2015 04:39	WG837923
Chlorobenzene	U		0.000348	0.00100	1	12/23/2015 04:39	WG837923
Chlorodibromomethane	U		0.000327	0.00100	1	12/23/2015 04:39	WG837923
Chloroethane	U		0.000453	0.00500	1	12/23/2015 04:39	WG837923
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/23/2015 04:39	WG837923
Chloroform	U		0.000324	0.00500	1	12/23/2015 04:39	WG837923
Chloromethane	U		0.000276	0.00250	1	12/23/2015 04:39	WG837923
2-Chlorotoluene	U		0.000375	0.00100	1	12/23/2015 04:39	WG837923
4-Chlorotoluene	U		0.000351	0.00100	1	12/23/2015 04:39	WG837923
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/23/2015 04:39	WG837923
1,2-Dibromoethane	U		0.000381	0.00100	1	12/23/2015 04:39	WG837923
Dibromomethane	U		0.000346	0.00100	1	12/23/2015 04:39	WG837923
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/23/2015 04:39	WG837923
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/23/2015 04:39	WG837923
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/23/2015 04:39	WG837923
Dichlorodifluoromethane	U		0.000551	0.00500	1	12/23/2015 04:39	WG837923
1,1-Dichloroethane	U		0.000259	0.00100	1	12/23/2015 04:39	WG837923
1,2-Dichloroethane	U		0.000361	0.00100	1	12/23/2015 04:39	WG837923
1,1-Dichloroethene	U		0.000398	0.00100	1	12/23/2015 04:39	WG837923
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/23/2015 04:39	WG837923
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/23/2015 04:39	WG837923
1,2-Dichloropropane	U		0.000306	0.00100	1	12/23/2015 04:39	WG837923
1,1-Dichloropropene	U		0.000352	0.00100	1	12/23/2015 04:39	WG837923
1,3-Dichloropropane	U		0.000366	0.00100	1	12/23/2015 04:39	WG837923
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/23/2015 04:39	WG837923
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/23/2015 04:39	WG837923
2,2-Dichloropropane	U		0.000321	0.00100	1	12/23/2015 04:39	WG837923
Di-isopropyl ether	U		0.000320	0.00100	1	12/23/2015 04:39	WG837923
Ethylbenzene	U		0.000384	0.00100	1	12/23/2015 04:39	WG837923
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	12/23/2015 04:39	WG837923
Isopropylbenzene	0.000399	J	0.000326	0.00100	1	12/23/2015 04:39	WG837923
p-Isopropyltoluene	U		0.000350	0.00100	1	12/23/2015 04:39	WG837923
2-Butanone (MEK)	U	J3	0.00393	0.0100	1	12/23/2015 04:39	WG837923
Methylene Chloride	U		0.00100	0.00500	1	12/23/2015 04:39	WG837923
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/23/2015 04:39	WG837923
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/23/2015 04:39	WG837923
Naphthalene	0.00243	J	0.00100	0.00500	1	12/23/2015 04:39	WG837923
n-Propylbenzene	U		0.000349	0.00100	1	12/23/2015 04:39	WG837923
Styrene	U		0.000307	0.00100	1	12/23/2015 04:39	WG837923
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/23/2015 04:39	WG837923
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/23/2015 04:39	WG837923
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/23/2015 04:39	WG837923
Tetrachloroethene	U		0.000372	0.00100	1	12/23/2015 04:39	WG837923
Toluene	U		0.000780	0.00500	1	12/23/2015 04:39	WG837923
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/23/2015 04:39	WG837923

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	12/23/2015 04:39	WG837923
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/23/2015 04:39	WG837923
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/23/2015 04:39	WG837923
Trichloroethene	U		0.000398	0.00100	1	12/23/2015 04:39	WG837923
Trichlorofluoromethane	U		0.00120	0.00500	1	12/23/2015 04:39	WG837923
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/23/2015 04:39	WG837923
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	12/23/2015 04:39	WG837923
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	12/23/2015 04:39	WG837923
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	12/23/2015 04:39	WG837923
Vinyl chloride	U		0.000259	0.00100	1	12/23/2015 04:39	WG837923
Xylenes, Total	0.00207	J	0.00106	0.00300	1	12/23/2015 04:39	WG837923
(S) Toluene-d8	*104*			*90.0-115*		*12/23/2015 04:39*	WG837923
(S) Dibromofluoromethane	*103*			*79.0-121*		*12/23/2015 04:39*	WG837923
(S) 4-Bromofluorobenzene	*103*			*80.1-120*		*12/23/2015 04:39*	WG837923

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00655		0.0000140	0.0000500	1	12/15/2015 20:58	WG835278
Acenaphthene	0.00263		0.0000100	0.0000500	1	12/15/2015 20:58	WG835278
Acenaphthylene	0.00355		0.0000120	0.0000500	1	12/15/2015 20:58	WG835278
Benzo(a)anthracene	0.000550		0.00000410	0.0000500	1	12/15/2015 20:58	WG835278
Benzo(a)pyrene	0.000218		0.0000116	0.0000500	1	12/15/2015 20:58	WG835278
Benzo(b)fluoranthene	0.000170		0.00000212	0.0000500	1	12/15/2015 20:58	WG835278
Benzo(g,h,i)perylene	0.0000630		0.00000227	0.0000500	1	12/15/2015 20:58	WG835278
Benzo(k)fluoranthene	0.0000479	J	0.0000136	0.0000500	1	12/15/2015 20:58	WG835278
Chrysene	0.000457		0.0000108	0.0000500	1	12/15/2015 20:58	WG835278
Dibenz(a,h)anthracene	0.0000195	J	0.00000396	0.0000500	1	12/15/2015 20:58	WG835278
Fluoranthene	0.00374		0.0000157	0.0000500	1	12/15/2015 20:58	WG835278
Fluorene	U		0.00000850	0.0000500	1	12/15/2015 20:58	WG835278
Indeno(1,2,3-cd)pyrene	0.0000522		0.0000148	0.0000500	1	12/15/2015 20:58	WG835278
Naphthalene	0.000498		0.0000198	0.000250	1	12/15/2015 20:58	WG835278
Phenanthrene	0.00972		0.00000820	0.0000500	1	12/15/2015 20:58	WG835278
Pyrene	0.00595		0.0000117	0.0000500	1	12/15/2015 20:58	WG835278
1-Methylnaphthalene	0.00131		0.00000821	0.000250	1	12/15/2015 20:58	WG835278
2-Methylnaphthalene	0.0000356	J	0.00000902	0.000250	1	12/15/2015 20:58	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 20:58	WG835278
(S) Nitrobenzene-d5	*97.7*			*33.8-179*		*12/15/2015 20:58*	WG835278
(S) 2-Fluorobiphenyl	*76.2*			*55.5-150*		*12/15/2015 20:58*	WG835278
(S) p-Terphenyl-d14	*64.2*			*46.2-163*		*12/15/2015 20:58*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	12/22/2015 23:46	WG837554
Acrolein	U		0.00887	0.0500	1	12/22/2015 23:46	WG837554
Acrylonitrile	U		0.00187	0.0100	1	12/22/2015 23:46	WG837554
Benzene	0.00109		0.000331	0.00100	1	12/22/2015 23:46	WG837554
Bromobenzene	U		0.000352	0.00100	1	12/22/2015 23:46	WG837554
Bromodichloromethane	U		0.000380	0.00100	1	12/22/2015 23:46	WG837554
Bromoform	U		0.000469	0.00100	1	12/22/2015 23:46	WG837554
Bromomethane	U	J4	0.000866	0.00500	1	12/22/2015 23:46	WG837554
n-Butylbenzene	U		0.000361	0.00100	1	12/22/2015 23:46	WG837554
sec-Butylbenzene	U		0.000365	0.00100	1	12/22/2015 23:46	WG837554
tert-Butylbenzene	U		0.000399	0.00100	1	12/22/2015 23:46	WG837554
Carbon tetrachloride	U		0.000379	0.00100	1	12/22/2015 23:46	WG837554
Chlorobenzene	U		0.000348	0.00100	1	12/22/2015 23:46	WG837554
Chlorodibromomethane	U		0.000327	0.00100	1	12/22/2015 23:46	WG837554
Chloroethane	U		0.000453	0.00500	1	12/22/2015 23:46	WG837554
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/22/2015 23:46	WG837554
Chloroform	U		0.000324	0.00500	1	12/22/2015 23:46	WG837554
Chloromethane	U		0.000276	0.00250	1	12/22/2015 23:46	WG837554
2-Chlorotoluene	U		0.000375	0.00100	1	12/22/2015 23:46	WG837554
4-Chlorotoluene	U		0.000351	0.00100	1	12/22/2015 23:46	WG837554
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/22/2015 23:46	WG837554
1,2-Dibromoethane	U		0.000381	0.00100	1	12/22/2015 23:46	WG837554
Dibromomethane	U		0.000346	0.00100	1	12/22/2015 23:46	WG837554
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/22/2015 23:46	WG837554
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/22/2015 23:46	WG837554
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/22/2015 23:46	WG837554
Dichlorodifluoromethane	U		0.000551	0.00500	1	12/22/2015 23:46	WG837554
1,1-Dichloroethane	U		0.000259	0.00100	1	12/22/2015 23:46	WG837554
1,2-Dichloroethane	U		0.000361	0.00100	1	12/22/2015 23:46	WG837554
1,1-Dichloroethene	U		0.000398	0.00100	1	12/22/2015 23:46	WG837554
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/22/2015 23:46	WG837554
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/22/2015 23:46	WG837554
1,2-Dichloropropane	U		0.000306	0.00100	1	12/22/2015 23:46	WG837554
1,1-Dichloropropene	U		0.000352	0.00100	1	12/22/2015 23:46	WG837554
1,3-Dichloropropane	U		0.000366	0.00100	1	12/22/2015 23:46	WG837554
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/22/2015 23:46	WG837554
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/22/2015 23:46	WG837554
2,2-Dichloropropane	U		0.000321	0.00100	1	12/22/2015 23:46	WG837554
Di-isopropyl ether	U		0.000320	0.00100	1	12/22/2015 23:46	WG837554
Ethylbenzene	U		0.000384	0.00100	1	12/22/2015 23:46	WG837554
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	12/22/2015 23:46	WG837554
Isopropylbenzene	0.000531	J	0.000326	0.00100	1	12/22/2015 23:46	WG837554
p-Isopropyltoluene	0.000868	J	0.000350	0.00100	1	12/22/2015 23:46	WG837554
2-Butanone (MEK)	U		0.00393	0.0100	1	12/22/2015 23:46	WG837554
Methylene Chloride	U		0.00100	0.00500	1	12/22/2015 23:46	WG837554
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/22/2015 23:46	WG837554
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/22/2015 23:46	WG837554
Naphthalene	0.0337		0.00100	0.00500	1	12/22/2015 23:46	WG837554
n-Propylbenzene	U		0.000349	0.00100	1	12/22/2015 23:46	WG837554
Styrene	U		0.000307	0.00100	1	12/22/2015 23:46	WG837554
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/22/2015 23:46	WG837554
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/22/2015 23:46	WG837554
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/22/2015 23:46	WG837554
Tetrachloroethene	U		0.000372	0.00100	1	12/22/2015 23:46	WG837554
Toluene	U		0.000780	0.00500	1	12/22/2015 23:46	WG837554
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/22/2015 23:46	WG837554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	12/22/2015 23:46	WG837554
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/22/2015 23:46	WG837554
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/22/2015 23:46	WG837554
Trichloroethene	U		0.000398	0.00100	1	12/22/2015 23:46	WG837554
Trichlorofluoromethane	U		0.00120	0.00500	1	12/22/2015 23:46	WG837554
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/22/2015 23:46	WG837554
1,2,4-Trimethylbenzene	0.00481		0.000373	0.00100	1	12/22/2015 23:46	WG837554
1,2,3-Trimethylbenzene	0.00259		0.000321	0.00100	1	12/22/2015 23:46	WG837554
1,3,5-Trimethylbenzene	0.00258		0.000387	0.00100	1	12/22/2015 23:46	WG837554
Vinyl chloride	U		0.000259	0.00100	1	12/22/2015 23:46	WG837554
Xylenes, Total	0.00475		0.00106	0.00300	1	12/22/2015 23:46	WG837554
(S) Toluene-d8	*110*			*90.0-115*		*12/22/2015 23:46*	WG837554
(S) Dibromofluoromethane	*113*			*79.0-121*		*12/22/2015 23:46*	WG837554
(S) 4-Bromofluorobenzene	*101*			*80.1-120*		*12/22/2015 23:46*	WG837554

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00390		0.0000140	0.0000500	1	12/15/2015 21:20	WG835278
Acenaphthene	0.0362		0.0000100	0.0000500	1	12/15/2015 21:20	WG835278
Acenaphthylene	0.00359		0.0000120	0.0000500	1	12/15/2015 21:20	WG835278
Benzo(a)anthracene	0.000170		0.00000410	0.0000500	1	12/15/2015 21:20	WG835278
Benzo(a)pyrene	0.0000406	J	0.0000116	0.0000500	1	12/15/2015 21:20	WG835278
Benzo(b)fluoranthene	U		0.00000212	0.0000500	1	12/15/2015 21:20	WG835278
Benzo(g,h,i)perylene	0.0000117	J	0.00000227	0.0000500	1	12/15/2015 21:20	WG835278
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	12/15/2015 21:20	WG835278
Chrysene	0.000125		0.0000108	0.0000500	1	12/15/2015 21:20	WG835278
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	12/15/2015 21:20	WG835278
Fluoranthene	0.00175		0.0000157	0.0000500	1	12/15/2015 21:20	WG835278
Fluorene	0.00751		0.00000850	0.0000500	1	12/15/2015 21:20	WG835278
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	12/15/2015 21:20	WG835278
Naphthalene	0.00257		0.0000198	0.000250	1	12/15/2015 21:20	WG835278
Phenanthrene	0.00933		0.00000820	0.0000500	1	12/15/2015 21:20	WG835278
Pyrene	0.00226		0.0000117	0.0000500	1	12/15/2015 21:20	WG835278
1-Methylnaphthalene	0.0438		0.00000821	0.000250	1	12/15/2015 21:20	WG835278
2-Methylnaphthalene	0.000728		0.00000902	0.000250	1	12/15/2015 21:20	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 21:20	WG835278
(S) Nitrobenzene-d5	*92.0*			*33.8-179*		*12/15/2015 21:20*	WG835278
(S) 2-Fluorobiphenyl	*78.7*			*55.5-150*		*12/15/2015 21:20*	WG835278
(S) p-Terphenyl-d14	*67.3*			*46.2-163*		*12/15/2015 21:20*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	12/23/2015 00:04	WG837554
Acrolein	U		0.00887	0.0500	1	12/23/2015 00:04	WG837554
Acrylonitrile	U		0.00187	0.0100	1	12/23/2015 00:04	WG837554
Benzene	U		0.000331	0.00100	1	12/23/2015 00:04	WG837554
Bromobenzene	U		0.000352	0.00100	1	12/23/2015 00:04	WG837554
Bromodichloromethane	U		0.000380	0.00100	1	12/23/2015 00:04	WG837554
Bromoform	U		0.000469	0.00100	1	12/23/2015 00:04	WG837554
Bromomethane	U	J4	0.000866	0.00500	1	12/23/2015 00:04	WG837554
n-Butylbenzene	U		0.000361	0.00100	1	12/23/2015 00:04	WG837554
sec-Butylbenzene	U		0.000365	0.00100	1	12/23/2015 00:04	WG837554
tert-Butylbenzene	U		0.000399	0.00100	1	12/23/2015 00:04	WG837554
Carbon tetrachloride	U		0.000379	0.00100	1	12/23/2015 00:04	WG837554
Chlorobenzene	U		0.000348	0.00100	1	12/23/2015 00:04	WG837554
Chlorodibromomethane	U		0.000327	0.00100	1	12/23/2015 00:04	WG837554
Chloroethane	U		0.000453	0.00500	1	12/23/2015 00:04	WG837554
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/23/2015 00:04	WG837554
Chloroform	U		0.000324	0.00500	1	12/23/2015 00:04	WG837554
Chloromethane	U		0.000276	0.00250	1	12/23/2015 00:04	WG837554
2-Chlorotoluene	U		0.000375	0.00100	1	12/23/2015 00:04	WG837554
4-Chlorotoluene	U		0.000351	0.00100	1	12/23/2015 00:04	WG837554
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/23/2015 00:04	WG837554
1,2-Dibromoethane	U		0.000381	0.00100	1	12/23/2015 00:04	WG837554
Dibromomethane	U		0.000346	0.00100	1	12/23/2015 00:04	WG837554
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/23/2015 00:04	WG837554
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/23/2015 00:04	WG837554
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/23/2015 00:04	WG837554
Dichlorodifluoromethane	U		0.000551	0.00500	1	12/23/2015 00:04	WG837554
1,1-Dichloroethane	U		0.000259	0.00100	1	12/23/2015 00:04	WG837554
1,2-Dichloroethane	U		0.000361	0.00100	1	12/23/2015 00:04	WG837554
1,1-Dichloroethene	U		0.000398	0.00100	1	12/23/2015 00:04	WG837554
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/23/2015 00:04	WG837554
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/23/2015 00:04	WG837554
1,2-Dichloropropane	U		0.000306	0.00100	1	12/23/2015 00:04	WG837554
1,1-Dichloropropene	U		0.000352	0.00100	1	12/23/2015 00:04	WG837554
1,3-Dichloropropane	U		0.000366	0.00100	1	12/23/2015 00:04	WG837554
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/23/2015 00:04	WG837554
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/23/2015 00:04	WG837554
2,2-Dichloropropane	U		0.000321	0.00100	1	12/23/2015 00:04	WG837554
Di-isopropyl ether	U		0.000320	0.00100	1	12/23/2015 00:04	WG837554
Ethylbenzene	0.00112		0.000384	0.00100	1	12/23/2015 00:04	WG837554
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	12/23/2015 00:04	WG837554
Isopropylbenzene	0.000560	J	0.000326	0.00100	1	12/23/2015 00:04	WG837554
p-Isopropyltoluene	U		0.000350	0.00100	1	12/23/2015 00:04	WG837554
2-Butanone (MEK)	U		0.00393	0.0100	1	12/23/2015 00:04	WG837554
Methylene Chloride	U		0.00100	0.00500	1	12/23/2015 00:04	WG837554
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/23/2015 00:04	WG837554
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/23/2015 00:04	WG837554
Naphthalene	0.00781		0.00100	0.00500	1	12/23/2015 00:04	WG837554
n-Propylbenzene	U		0.000349	0.00100	1	12/23/2015 00:04	WG837554
Styrene	U		0.000307	0.00100	1	12/23/2015 00:04	WG837554
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/23/2015 00:04	WG837554
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/23/2015 00:04	WG837554
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/23/2015 00:04	WG837554
Tetrachloroethene	U		0.000372	0.00100	1	12/23/2015 00:04	WG837554
Toluene	U		0.000780	0.00500	1	12/23/2015 00:04	WG837554
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/23/2015 00:04	WG837554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	12/23/2015 00:04	WG837554
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/23/2015 00:04	WG837554
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/23/2015 00:04	WG837554
Trichloroethene	U		0.000398	0.00100	1	12/23/2015 00:04	WG837554
Trichlorofluoromethane	U		0.00120	0.00500	1	12/23/2015 00:04	WG837554
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/23/2015 00:04	WG837554
1,2,4-Trimethylbenzene	0.00121		0.000373	0.00100	1	12/23/2015 00:04	WG837554
1,2,3-Trimethylbenzene	0.000909	J	0.000321	0.00100	1	12/23/2015 00:04	WG837554
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	12/23/2015 00:04	WG837554
Vinyl chloride	U		0.000259	0.00100	1	12/23/2015 00:04	WG837554
Xylenes, Total	0.00166	J	0.00106	0.00300	1	12/23/2015 00:04	WG837554
(S) Toluene-d8	*111*			*90.0-115*		*12/23/2015 00:04*	WG837554
(S) Dibromofluoromethane	*111*			*79.0-121*		*12/23/2015 00:04*	WG837554
(S) 4-Bromofluorobenzene	*99.2*			*80.1-120*		*12/23/2015 00:04*	WG837554

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00161		0.0000140	0.0000500	1	12/15/2015 21:42	WG835278
Acenaphthene	0.00199		0.0000100	0.0000500	1	12/15/2015 21:42	WG835278
Acenaphthylene	0.00339		0.0000120	0.0000500	1	12/15/2015 21:42	WG835278
Benzo(a)anthracene	0.0000917		0.00000410	0.0000500	1	12/15/2015 21:42	WG835278
Benzo(a)pyrene	0.0000154	J	0.0000116	0.0000500	1	12/15/2015 21:42	WG835278
Benzo(b)fluoranthene	U		0.00000212	0.0000500	1	12/15/2015 21:42	WG835278
Benzo(g,h,i)perylene	0.00000489	J	0.00000227	0.0000500	1	12/15/2015 21:42	WG835278
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	12/15/2015 21:42	WG835278
Chrysene	0.0000808		0.0000108	0.0000500	1	12/15/2015 21:42	WG835278
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	12/15/2015 21:42	WG835278
Fluoranthene	0.000882		0.0000157	0.0000500	1	12/15/2015 21:42	WG835278
Fluorene	0.00163		0.00000850	0.0000500	1	12/15/2015 21:42	WG835278
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	12/15/2015 21:42	WG835278
Naphthalene	0.00872		0.0000198	0.000250	1	12/15/2015 21:42	WG835278
Phenanthrene	0.00451		0.00000820	0.0000500	1	12/15/2015 21:42	WG835278
Pyrene	0.00137		0.0000117	0.0000500	1	12/15/2015 21:42	WG835278
1-Methylnaphthalene	0.0104		0.00000821	0.000250	1	12/15/2015 21:42	WG835278
2-Methylnaphthalene	0.0000937	J	0.00000902	0.000250	1	12/15/2015 21:42	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 21:42	WG835278
(S) Nitrobenzene-d5	*91.6*			*33.8-179*		*12/15/2015 21:42*	WG835278
(S) 2-Fluorobiphenyl	*78.3*			*55.5-150*		*12/15/2015 21:42*	WG835278
(S) p-Terphenyl-d14	*70.0*			*46.2-163*		*12/15/2015 21:42*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	12/23/2015 00:22	WG837554
Acrolein	U		0.00887	0.0500	1	12/23/2015 00:22	WG837554
Acrylonitrile	U		0.00187	0.0100	1	12/23/2015 00:22	WG837554
Benzene	U		0.000331	0.00100	1	12/23/2015 00:22	WG837554
Bromobenzene	U		0.000352	0.00100	1	12/23/2015 00:22	WG837554
Bromodichloromethane	U		0.000380	0.00100	1	12/23/2015 00:22	WG837554
Bromoform	U		0.000469	0.00100	1	12/23/2015 00:22	WG837554
Bromomethane	U	J4	0.000866	0.00500	1	12/23/2015 00:22	WG837554
n-Butylbenzene	U		0.000361	0.00100	1	12/23/2015 00:22	WG837554
sec-Butylbenzene	U		0.000365	0.00100	1	12/23/2015 00:22	WG837554
tert-Butylbenzene	U		0.000399	0.00100	1	12/23/2015 00:22	WG837554
Carbon tetrachloride	U		0.000379	0.00100	1	12/23/2015 00:22	WG837554
Chlorobenzene	U		0.000348	0.00100	1	12/23/2015 00:22	WG837554
Chlorodibromomethane	U		0.000327	0.00100	1	12/23/2015 00:22	WG837554
Chloroethane	U		0.000453	0.00500	1	12/23/2015 00:22	WG837554
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/23/2015 00:22	WG837554
Chloroform	U		0.000324	0.00500	1	12/23/2015 00:22	WG837554
Chloromethane	U		0.000276	0.00250	1	12/23/2015 00:22	WG837554
2-Chlorotoluene	U		0.000375	0.00100	1	12/23/2015 00:22	WG837554
4-Chlorotoluene	U		0.000351	0.00100	1	12/23/2015 00:22	WG837554
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/23/2015 00:22	WG837554
1,2-Dibromoethane	U		0.000381	0.00100	1	12/23/2015 00:22	WG837554
Dibromomethane	U		0.000346	0.00100	1	12/23/2015 00:22	WG837554
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/23/2015 00:22	WG837554
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/23/2015 00:22	WG837554
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/23/2015 00:22	WG837554
Dichlorodifluoromethane	U		0.000551	0.00500	1	12/23/2015 00:22	WG837554
1,1-Dichloroethane	U		0.000259	0.00100	1	12/23/2015 00:22	WG837554
1,2-Dichloroethane	U		0.000361	0.00100	1	12/23/2015 00:22	WG837554
1,1-Dichloroethene	U		0.000398	0.00100	1	12/23/2015 00:22	WG837554
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/23/2015 00:22	WG837554
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/23/2015 00:22	WG837554
1,2-Dichloropropane	U		0.000306	0.00100	1	12/23/2015 00:22	WG837554
1,1-Dichloropropene	U		0.000352	0.00100	1	12/23/2015 00:22	WG837554
1,3-Dichloropropane	U		0.000366	0.00100	1	12/23/2015 00:22	WG837554
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/23/2015 00:22	WG837554
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/23/2015 00:22	WG837554
2,2-Dichloropropane	U		0.000321	0.00100	1	12/23/2015 00:22	WG837554
Di-isopropyl ether	U		0.000320	0.00100	1	12/23/2015 00:22	WG837554
Ethylbenzene	U		0.000384	0.00100	1	12/23/2015 00:22	WG837554
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	12/23/2015 00:22	WG837554
Isopropylbenzene	U		0.000326	0.00100	1	12/23/2015 00:22	WG837554
p-Isopropyltoluene	U		0.000350	0.00100	1	12/23/2015 00:22	WG837554
2-Butanone (MEK)	U		0.00393	0.0100	1	12/23/2015 00:22	WG837554
Methylene Chloride	U		0.00100	0.00500	1	12/23/2015 00:22	WG837554
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/23/2015 00:22	WG837554
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/23/2015 00:22	WG837554
Naphthalene	0.00116	J	0.00100	0.00500	1	12/23/2015 00:22	WG837554
n-Propylbenzene	U		0.000349	0.00100	1	12/23/2015 00:22	WG837554
Styrene	U		0.000307	0.00100	1	12/23/2015 00:22	WG837554
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/23/2015 00:22	WG837554
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/23/2015 00:22	WG837554
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/23/2015 00:22	WG837554
Tetrachloroethene	U		0.000372	0.00100	1	12/23/2015 00:22	WG837554
Toluene	U		0.000780	0.00500	1	12/23/2015 00:22	WG837554
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/23/2015 00:22	WG837554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	12/23/2015 00:22	WG837554
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/23/2015 00:22	WG837554
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/23/2015 00:22	WG837554
Trichloroethene	U		0.000398	0.00100	1	12/23/2015 00:22	WG837554
Trichlorofluoromethane	U		0.00120	0.00500	1	12/23/2015 00:22	WG837554
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/23/2015 00:22	WG837554
1,2,4-Trimethylbenzene	0.000506	J	0.000373	0.00100	1	12/23/2015 00:22	WG837554
1,2,3-Trimethylbenzene	0.000404	J	0.000321	0.00100	1	12/23/2015 00:22	WG837554
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	12/23/2015 00:22	WG837554
Vinyl chloride	U		0.000259	0.00100	1	12/23/2015 00:22	WG837554
Xylenes, Total	U		0.00106	0.00300	1	12/23/2015 00:22	WG837554
(S) Toluene-d8	*109*			*90.0-115*		*12/23/2015 00:22*	WG837554
(S) Dibromofluoromethane	*108*			*79.0-121*		*12/23/2015 00:22*	WG837554
(S) 4-Bromofluorobenzene	*100*			*80.1-120*		*12/23/2015 00:22*	WG837554

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.000134		0.0000140	0.0000500	1	12/15/2015 22:03	WG835278
Acenaphthene	0.000421		0.0000100	0.0000500	1	12/15/2015 22:03	WG835278
Acenaphthylene	0.000744		0.0000120	0.0000500	1	12/15/2015 22:03	WG835278
Benzo(a)anthracene	0.0000259	J	0.00000410	0.0000500	1	12/15/2015 22:03	WG835278
Benzo(a)pyrene	0.0000122	J	0.0000116	0.0000500	1	12/15/2015 22:03	WG835278
Benzo(b)fluoranthene	U		0.00000212	0.0000500	1	12/15/2015 22:03	WG835278
Benzo(g,h,i)perylene	0.0000129	J	0.00000227	0.0000500	1	12/15/2015 22:03	WG835278
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	12/15/2015 22:03	WG835278
Chrysene	0.0000157	J	0.0000108	0.0000500	1	12/15/2015 22:03	WG835278
Dibenz(a,h)anthracene	0.00000433	J	0.00000396	0.0000500	1	12/15/2015 22:03	WG835278
Fluoranthene	0.000166		0.0000157	0.0000500	1	12/15/2015 22:03	WG835278
Fluorene	0.0000591		0.00000850	0.0000500	1	12/15/2015 22:03	WG835278
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	12/15/2015 22:03	WG835278
Naphthalene	0.000290		0.0000198	0.000250	1	12/15/2015 22:03	WG835278
Phenanthrene	0.000141		0.00000820	0.0000500	1	12/15/2015 22:03	WG835278
Pyrene	0.000202		0.0000117	0.0000500	1	12/15/2015 22:03	WG835278
1-Methylnaphthalene	0.000849		0.00000821	0.000250	1	12/15/2015 22:03	WG835278
2-Methylnaphthalene	0.0000120	J	0.00000902	0.000250	1	12/15/2015 22:03	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 22:03	WG835278
(S) Nitrobenzene-d5	*91.0*			*33.8-179*		*12/15/2015 22:03*	WG835278
(S) 2-Fluorobiphenyl	*78.8*			*55.5-150*		*12/15/2015 22:03*	WG835278
(S) p-Terphenyl-d14	*69.6*			*46.2-163*		*12/15/2015 22:03*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	12/23/2015 00:41	WG837554
Acrolein	U		0.00887	0.0500	1	12/23/2015 00:41	WG837554
Acrylonitrile	U		0.00187	0.0100	1	12/23/2015 00:41	WG837554
Benzene	U		0.000331	0.00100	1	12/23/2015 00:41	WG837554
Bromobenzene	U		0.000352	0.00100	1	12/23/2015 00:41	WG837554
Bromodichloromethane	U		0.000380	0.00100	1	12/23/2015 00:41	WG837554
Bromoform	U		0.000469	0.00100	1	12/23/2015 00:41	WG837554
Bromomethane	U	J4	0.000866	0.00500	1	12/23/2015 00:41	WG837554
n-Butylbenzene	U		0.000361	0.00100	1	12/23/2015 00:41	WG837554
sec-Butylbenzene	U		0.000365	0.00100	1	12/23/2015 00:41	WG837554
tert-Butylbenzene	U		0.000399	0.00100	1	12/23/2015 00:41	WG837554
Carbon tetrachloride	U		0.000379	0.00100	1	12/23/2015 00:41	WG837554
Chlorobenzene	U		0.000348	0.00100	1	12/23/2015 00:41	WG837554
Chlorodibromomethane	U		0.000327	0.00100	1	12/23/2015 00:41	WG837554
Chloroethane	U		0.000453	0.00500	1	12/23/2015 00:41	WG837554
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/23/2015 00:41	WG837554
Chloroform	U		0.000324	0.00500	1	12/23/2015 00:41	WG837554
Chloromethane	U		0.000276	0.00250	1	12/23/2015 00:41	WG837554
2-Chlorotoluene	U		0.000375	0.00100	1	12/23/2015 00:41	WG837554
4-Chlorotoluene	U		0.000351	0.00100	1	12/23/2015 00:41	WG837554
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/23/2015 00:41	WG837554
1,2-Dibromoethane	U		0.000381	0.00100	1	12/23/2015 00:41	WG837554
Dibromomethane	U		0.000346	0.00100	1	12/23/2015 00:41	WG837554
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/23/2015 00:41	WG837554
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/23/2015 00:41	WG837554
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/23/2015 00:41	WG837554
Dichlorodifluoromethane	U		0.000551	0.00500	1	12/23/2015 00:41	WG837554
1,1-Dichloroethane	U		0.000259	0.00100	1	12/23/2015 00:41	WG837554
1,2-Dichloroethane	U		0.000361	0.00100	1	12/23/2015 00:41	WG837554
1,1-Dichloroethene	U		0.000398	0.00100	1	12/23/2015 00:41	WG837554
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/23/2015 00:41	WG837554
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/23/2015 00:41	WG837554
1,2-Dichloropropane	U		0.000306	0.00100	1	12/23/2015 00:41	WG837554
1,1-Dichloropropene	U		0.000352	0.00100	1	12/23/2015 00:41	WG837554
1,3-Dichloropropane	U		0.000366	0.00100	1	12/23/2015 00:41	WG837554
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/23/2015 00:41	WG837554
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/23/2015 00:41	WG837554
2,2-Dichloropropane	U		0.000321	0.00100	1	12/23/2015 00:41	WG837554
Di-isopropyl ether	U		0.000320	0.00100	1	12/23/2015 00:41	WG837554
Ethylbenzene	0.00167		0.000384	0.00100	1	12/23/2015 00:41	WG837554
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	12/23/2015 00:41	WG837554
Isopropylbenzene	0.00226		0.000326	0.00100	1	12/23/2015 00:41	WG837554
p-Isopropyltoluene	0.00197		0.000350	0.00100	1	12/23/2015 00:41	WG837554
2-Butanone (MEK)	U		0.00393	0.0100	1	12/23/2015 00:41	WG837554
Methylene Chloride	U		0.00100	0.00500	1	12/23/2015 00:41	WG837554
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/23/2015 00:41	WG837554
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/23/2015 00:41	WG837554
Naphthalene	0.159		0.0100	0.0500	10	12/23/2015 18:07	WG837559
n-Propylbenzene	0.00279		0.000349	0.00100	1	12/23/2015 00:41	WG837554
Styrene	0.000470	J	0.000307	0.00100	1	12/23/2015 00:41	WG837554
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/23/2015 00:41	WG837554
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/23/2015 00:41	WG837554
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/23/2015 00:41	WG837554
Tetrachloroethene	U		0.000372	0.00100	1	12/23/2015 00:41	WG837554
Toluene	0.00114	J	0.000780	0.00500	1	12/23/2015 00:41	WG837554
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/23/2015 00:41	WG837554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	12/23/2015 00:41	WG837554
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/23/2015 00:41	WG837554
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/23/2015 00:41	WG837554
Trichloroethene	U		0.000398	0.00100	1	12/23/2015 00:41	WG837554
Trichlorofluoromethane	U		0.00120	0.00500	1	12/23/2015 00:41	WG837554
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/23/2015 00:41	WG837554
1,2,4-Trimethylbenzene	0.0141		0.000373	0.00100	1	12/23/2015 00:41	WG837554
1,2,3-Trimethylbenzene	0.00465		0.000321	0.00100	1	12/23/2015 00:41	WG837554
1,3,5-Trimethylbenzene	0.00377		0.000387	0.00100	1	12/23/2015 00:41	WG837554
Vinyl chloride	U		0.000259	0.00100	1	12/23/2015 00:41	WG837554
Xylenes, Total	0.00419		0.00106	0.00300	1	12/23/2015 00:41	WG837554
(S) Toluene-d8	*114*			*90.0-115*		*12/23/2015 00:41*	WG837554
(S) Dibromofluoromethane	*109*			*79.0-121*		*12/23/2015 00:41*	WG837554
(S) 4-Bromofluorobenzene	*109*			*80.1-120*		*12/23/2015 00:41*	WG837554

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0480		0.0000140	0.0000500	1	12/15/2015 23:08	WG835278
Acenaphthene	0.0201		0.0000100	0.0000500	1	12/15/2015 23:08	WG835278
Acenaphthylene	0.0464		0.0000120	0.0000500	1	12/15/2015 23:08	WG835278
Benzo(a)anthracene	0.0207		0.00000410	0.0000500	1	12/15/2015 23:08	WG835278
Benzo(a)pyrene	0.0123		0.0000116	0.0000500	1	12/15/2015 23:08	WG835278
Benzo(b)fluoranthene	0.00937		0.00000212	0.0000500	1	12/15/2015 23:08	WG835278
Benzo(g,h,i)perylene	0.00364		0.00000227	0.0000500	1	12/15/2015 23:08	WG835278
Benzo(k)fluoranthene	0.00103		0.0000136	0.0000500	1	12/15/2015 23:08	WG835278
Chrysene	0.0152		0.0000108	0.0000500	1	12/15/2015 23:08	WG835278
Dibenz(a,h)anthracene	0.00109		0.00000396	0.0000500	1	12/15/2015 23:08	WG835278
Fluoranthene	0.0686		0.0000157	0.0000500	1	12/15/2015 23:08	WG835278
Fluorene	0.0305		0.00000850	0.0000500	1	12/15/2015 23:08	WG835278
Indeno(1,2,3-cd)pyrene	0.00295		0.0000148	0.0000500	1	12/15/2015 23:08	WG835278
Naphthalene	0.148		0.000396	0.00500	20	12/17/2015 00:31	WG835278
Phenanthrene	0.184		0.000164	0.00100	20	12/17/2015 00:31	WG835278
Pyrene	0.136		0.000234	0.00100	20	12/17/2015 00:31	WG835278
1-Methylnaphthalene	0.0869		0.00000821	0.000250	1	12/15/2015 23:08	WG835278
2-Methylnaphthalene	0.0474		0.00000902	0.000250	1	12/15/2015 23:08	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 23:08	WG835278
(S) Nitrobenzene-d5	*88.8*			*33.8-179*		*12/15/2015 23:08*	WG835278
(S) 2-Fluorobiphenyl	*75.8*			*55.5-150*		*12/15/2015 23:08*	WG835278
(S) p-Terphenyl-d14	*69.1*			*46.2-163*		*12/15/2015 23:08*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	12/23/2015 04:59	WG837923
Acrolein	U		0.00887	0.0500	1	12/23/2015 04:59	WG837923
Acrylonitrile	U		0.00187	0.0100	1	12/23/2015 04:59	WG837923
Benzene	0.00254		0.000331	0.00100	1	12/23/2015 04:59	WG837923
Bromobenzene	U		0.000352	0.00100	1	12/23/2015 04:59	WG837923
Bromodichloromethane	U		0.000380	0.00100	1	12/23/2015 04:59	WG837923
Bromoform	U		0.000469	0.00100	1	12/23/2015 04:59	WG837923
Bromomethane	U		0.000866	0.00500	1	12/23/2015 04:59	WG837923
n-Butylbenzene	U		0.000361	0.00100	1	12/23/2015 04:59	WG837923
sec-Butylbenzene	U		0.000365	0.00100	1	12/23/2015 04:59	WG837923
tert-Butylbenzene	U		0.000399	0.00100	1	12/23/2015 04:59	WG837923
Carbon tetrachloride	U		0.000379	0.00100	1	12/23/2015 04:59	WG837923
Chlorobenzene	U		0.000348	0.00100	1	12/23/2015 04:59	WG837923
Chlorodibromomethane	U		0.000327	0.00100	1	12/23/2015 04:59	WG837923
Chloroethane	U		0.000453	0.00500	1	12/23/2015 04:59	WG837923
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/23/2015 04:59	WG837923
Chloroform	U		0.000324	0.00500	1	12/23/2015 04:59	WG837923
Chloromethane	U		0.000276	0.00250	1	12/23/2015 04:59	WG837923
2-Chlorotoluene	U		0.000375	0.00100	1	12/23/2015 04:59	WG837923
4-Chlorotoluene	U		0.000351	0.00100	1	12/23/2015 04:59	WG837923
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/23/2015 04:59	WG837923
1,2-Dibromoethane	U		0.000381	0.00100	1	12/23/2015 04:59	WG837923
Dibromomethane	U		0.000346	0.00100	1	12/23/2015 04:59	WG837923
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/23/2015 04:59	WG837923
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/23/2015 04:59	WG837923
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/23/2015 04:59	WG837923
Dichlorodifluoromethane	U		0.000551	0.00500	1	12/23/2015 04:59	WG837923
1,1-Dichloroethane	U		0.000259	0.00100	1	12/23/2015 04:59	WG837923
1,2-Dichloroethane	U		0.000361	0.00100	1	12/23/2015 04:59	WG837923
1,1-Dichloroethene	U		0.000398	0.00100	1	12/23/2015 04:59	WG837923
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/23/2015 04:59	WG837923
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/23/2015 04:59	WG837923
1,2-Dichloropropane	U		0.000306	0.00100	1	12/23/2015 04:59	WG837923
1,1-Dichloropropene	U		0.000352	0.00100	1	12/23/2015 04:59	WG837923
1,3-Dichloropropane	U		0.000366	0.00100	1	12/23/2015 04:59	WG837923
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/23/2015 04:59	WG837923
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/23/2015 04:59	WG837923
2,2-Dichloropropane	U		0.000321	0.00100	1	12/23/2015 04:59	WG837923
Di-isopropyl ether	U		0.000320	0.00100	1	12/23/2015 04:59	WG837923
Ethylbenzene	0.000707	J	0.000384	0.00100	1	12/23/2015 04:59	WG837923
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	12/23/2015 04:59	WG837923
Isopropylbenzene	0.000504	J	0.000326	0.00100	1	12/23/2015 04:59	WG837923
p-Isopropyltoluene	U		0.000350	0.00100	1	12/23/2015 04:59	WG837923
2-Butanone (MEK)	U	J3	0.00393	0.0100	1	12/23/2015 04:59	WG837923
Methylene Chloride	U		0.00100	0.00500	1	12/23/2015 04:59	WG837923
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/23/2015 04:59	WG837923
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/23/2015 04:59	WG837923
Naphthalene	0.0526		0.00100	0.00500	1	12/23/2015 04:59	WG837923
n-Propylbenzene	0.000417	J	0.000349	0.00100	1	12/23/2015 04:59	WG837923
Styrene	0.000319	J	0.000307	0.00100	1	12/23/2015 04:59	WG837923
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/23/2015 04:59	WG837923
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/23/2015 04:59	WG837923
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/23/2015 04:59	WG837923
Tetrachloroethene	U		0.000372	0.00100	1	12/23/2015 04:59	WG837923
Toluene	U		0.000780	0.00500	1	12/23/2015 04:59	WG837923
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/23/2015 04:59	WG837923

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	12/23/2015 04:59	WG837923
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/23/2015 04:59	WG837923
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/23/2015 04:59	WG837923
Trichloroethene	U		0.000398	0.00100	1	12/23/2015 04:59	WG837923
Trichlorofluoromethane	U		0.00120	0.00500	1	12/23/2015 04:59	WG837923
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/23/2015 04:59	WG837923
1,2,4-Trimethylbenzene	0.00364		0.000373	0.00100	1	12/23/2015 04:59	WG837923
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	12/23/2015 04:59	WG837923
1,3,5-Trimethylbenzene	0.00194		0.000387	0.00100	1	12/23/2015 04:59	WG837923
Vinyl chloride	U		0.000259	0.00100	1	12/23/2015 04:59	WG837923
Xylenes, Total	U		0.00106	0.00300	1	12/23/2015 04:59	WG837923
(S) Toluene-d8	*105*			*90.0-115*		*12/23/2015 04:59*	WG837923
(S) Dibromofluoromethane	*105*			*79.0-121*		*12/23/2015 04:59*	WG837923
(S) 4-Bromofluorobenzene	*103*			*80.1-120*		*12/23/2015 04:59*	WG837923

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00912		0.0000140	0.0000500	1	12/15/2015 22:25	WG835278
Acenaphthene	0.0669		0.0000100	0.0000500	1	12/15/2015 22:25	WG835278
Acenaphthylene	0.0159		0.0000120	0.0000500	1	12/15/2015 22:25	WG835278
Benzo(a)anthracene	0.00183		0.00000410	0.0000500	1	12/15/2015 22:25	WG835278
Benzo(a)pyrene	0.00125		0.0000116	0.0000500	1	12/15/2015 22:25	WG835278
Benzo(b)fluoranthene	0.000896		0.00000212	0.0000500	1	12/15/2015 22:25	WG835278
Benzo(g,h,i)perylene	0.000523		0.00000227	0.0000500	1	12/15/2015 22:25	WG835278
Benzo(k)fluoranthene	0.000292		0.0000136	0.0000500	1	12/15/2015 22:25	WG835278
Chrysene	0.00157		0.0000108	0.0000500	1	12/15/2015 22:25	WG835278
Dibenz(a,h)anthracene	0.000139		0.00000396	0.0000500	1	12/15/2015 22:25	WG835278
Fluoranthene	0.00569		0.0000157	0.0000500	1	12/15/2015 22:25	WG835278
Fluorene	0.0158		0.00000850	0.0000500	1	12/15/2015 22:25	WG835278
Indeno(1,2,3-cd)pyrene	0.000376		0.0000148	0.0000500	1	12/15/2015 22:25	WG835278
Naphthalene	0.0256		0.0000198	0.000250	1	12/15/2015 22:25	WG835278
Phenanthrene	0.0213		0.00000820	0.0000500	1	12/15/2015 22:25	WG835278
Pyrene	0.00817		0.0000117	0.0000500	1	12/15/2015 22:25	WG835278
1-Methylnaphthalene	0.117		0.000164	0.00500	20	12/17/2015 00:53	WG835278
2-Methylnaphthalene	0.0105		0.00000902	0.000250	1	12/15/2015 22:25	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 22:25	WG835278
(S) Nitrobenzene-d5	*88.2*			*33.8-179*		*12/15/2015 22:25*	WG835278
(S) 2-Fluorobiphenyl	*73.7*			*55.5-150*		*12/15/2015 22:25*	WG835278
(S) p-Terphenyl-d14	*66.5*			*46.2-163*		*12/15/2015 22:25*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	12/23/2015 05:19	WG837923
Acrolein	U		0.00887	0.0500	1	12/23/2015 05:19	WG837923
Acrylonitrile	U		0.00187	0.0100	1	12/23/2015 05:19	WG837923
Benzene	0.0859		0.000331	0.00100	1	12/23/2015 05:19	WG837923
Bromobenzene	U		0.000352	0.00100	1	12/23/2015 05:19	WG837923
Bromodichloromethane	U		0.000380	0.00100	1	12/23/2015 05:19	WG837923
Bromoform	U		0.000469	0.00100	1	12/23/2015 05:19	WG837923
Bromomethane	U		0.000866	0.00500	1	12/23/2015 05:19	WG837923
n-Butylbenzene	0.000831	J	0.000361	0.00100	1	12/23/2015 05:19	WG837923
sec-Butylbenzene	U		0.000365	0.00100	1	12/23/2015 05:19	WG837923
tert-Butylbenzene	U		0.000399	0.00100	1	12/23/2015 05:19	WG837923
Carbon tetrachloride	U		0.000379	0.00100	1	12/23/2015 05:19	WG837923
Chlorobenzene	U		0.000348	0.00100	1	12/23/2015 05:19	WG837923
Chlorodibromomethane	U		0.000327	0.00100	1	12/23/2015 05:19	WG837923
Chloroethane	U		0.000453	0.00500	1	12/23/2015 05:19	WG837923
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/23/2015 05:19	WG837923
Chloroform	U		0.000324	0.00500	1	12/23/2015 05:19	WG837923
Chloromethane	U		0.000276	0.00250	1	12/23/2015 05:19	WG837923
2-Chlorotoluene	U		0.000375	0.00100	1	12/23/2015 05:19	WG837923
4-Chlorotoluene	U		0.000351	0.00100	1	12/23/2015 05:19	WG837923
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/23/2015 05:19	WG837923
1,2-Dibromoethane	U		0.000381	0.00100	1	12/23/2015 05:19	WG837923
Dibromomethane	U		0.000346	0.00100	1	12/23/2015 05:19	WG837923
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/23/2015 05:19	WG837923
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/23/2015 05:19	WG837923
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/23/2015 05:19	WG837923
Dichlorodifluoromethane	U		0.000551	0.00500	1	12/23/2015 05:19	WG837923
1,1-Dichloroethane	U		0.000259	0.00100	1	12/23/2015 05:19	WG837923
1,2-Dichloroethane	U		0.000361	0.00100	1	12/23/2015 05:19	WG837923
1,1-Dichloroethene	U		0.000398	0.00100	1	12/23/2015 05:19	WG837923
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/23/2015 05:19	WG837923
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/23/2015 05:19	WG837923
1,2-Dichloropropane	U		0.000306	0.00100	1	12/23/2015 05:19	WG837923
1,1-Dichloropropene	U		0.000352	0.00100	1	12/23/2015 05:19	WG837923
1,3-Dichloropropane	U		0.000366	0.00100	1	12/23/2015 05:19	WG837923
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/23/2015 05:19	WG837923
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/23/2015 05:19	WG837923
2,2-Dichloropropane	U		0.000321	0.00100	1	12/23/2015 05:19	WG837923
Di-isopropyl ether	U		0.000320	0.00100	1	12/23/2015 05:19	WG837923
Ethylbenzene	0.0800		0.000384	0.00100	1	12/23/2015 05:19	WG837923
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	12/23/2015 05:19	WG837923
Isopropylbenzene	0.0181		0.000326	0.00100	1	12/23/2015 05:19	WG837923
p-Isopropyltoluene	0.00388		0.000350	0.00100	1	12/23/2015 05:19	WG837923
2-Butanone (MEK)	U	J3	0.00393	0.0100	1	12/23/2015 05:19	WG837923
Methylene Chloride	U		0.00100	0.00500	1	12/23/2015 05:19	WG837923
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/23/2015 05:19	WG837923
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/23/2015 05:19	WG837923
Naphthalene	0.221		0.00500	0.0250	5	12/23/2015 18:26	WG837559
n-Propylbenzene	0.00313		0.000349	0.00100	1	12/23/2015 05:19	WG837923
Styrene	U		0.000307	0.00100	1	12/23/2015 05:19	WG837923
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/23/2015 05:19	WG837923
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/23/2015 05:19	WG837923
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/23/2015 05:19	WG837923
Tetrachloroethene	U		0.000372	0.00100	1	12/23/2015 05:19	WG837923
Toluene	0.00628		0.000780	0.00500	1	12/23/2015 05:19	WG837923
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/23/2015 05:19	WG837923

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	12/23/2015 05:19	WG837923
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/23/2015 05:19	WG837923
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/23/2015 05:19	WG837923
Trichloroethene	U		0.000398	0.00100	1	12/23/2015 05:19	WG837923
Trichlorofluoromethane	U		0.00120	0.00500	1	12/23/2015 05:19	WG837923
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/23/2015 05:19	WG837923
1,2,4-Trimethylbenzene	0.0321		0.000373	0.00100	1	12/23/2015 05:19	WG837923
1,2,3-Trimethylbenzene	0.0283		0.000321	0.00100	1	12/23/2015 05:19	WG837923
1,3,5-Trimethylbenzene	0.00654		0.000387	0.00100	1	12/23/2015 05:19	WG837923
Vinyl chloride	U		0.000259	0.00100	1	12/23/2015 05:19	WG837923
Xylenes, Total	0.0708		0.00106	0.00300	1	12/23/2015 05:19	WG837923
(S) Toluene-d8	*106*			*90.0-115*		*12/23/2015 05:19*	WG837923
(S) Dibromofluoromethane	*104*			*79.0-121*		*12/23/2015 05:19*	WG837923
(S) 4-Bromofluorobenzene	*105*			*80.1-120*		*12/23/2015 05:19*	WG837923

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00910		0.0000140	0.0000500	1	12/15/2015 22:46	WG835278
Acenaphthene	0.128		0.000200	0.00100	20	12/17/2015 01:15	WG835278
Acenaphthylene	0.0421		0.0000120	0.0000500	1	12/15/2015 22:46	WG835278
Benzo(a)anthracene	0.000140		0.00000410	0.0000500	1	12/15/2015 22:46	WG835278
Benzo(a)pyrene	0.0000293	J	0.0000116	0.0000500	1	12/15/2015 22:46	WG835278
Benzo(b)fluoranthene	0.0000247	J	0.00000212	0.0000500	1	12/15/2015 22:46	WG835278
Benzo(g,h,i)perylene	0.0000165	J	0.00000227	0.0000500	1	12/15/2015 22:46	WG835278
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	12/15/2015 22:46	WG835278
Chrysene	0.0000998		0.0000108	0.0000500	1	12/15/2015 22:46	WG835278
Dibenz(a,h)anthracene	0.00000479	J	0.00000396	0.0000500	1	12/15/2015 22:46	WG835278
Fluoranthene	0.00287		0.0000157	0.0000500	1	12/15/2015 22:46	WG835278
Fluorene	0.0269		0.00000850	0.0000500	1	12/15/2015 22:46	WG835278
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	12/15/2015 22:46	WG835278
Naphthalene	0.0687		0.0000198	0.000250	1	12/15/2015 22:46	WG835278
Phenanthrene	0.0441		0.00000820	0.0000500	1	12/15/2015 22:46	WG835278
Pyrene	0.00392		0.0000117	0.0000500	1	12/15/2015 22:46	WG835278
1-Methylnaphthalene	0.430		0.000164	0.00500	20	12/17/2015 01:15	WG835278
2-Methylnaphthalene	0.00113		0.00000902	0.000250	1	12/15/2015 22:46	WG835278
2-Chloronaphthalene	U		0.00000647	0.000250	1	12/15/2015 22:46	WG835278
(S) Nitrobenzene-d5	*84.5*			*33.8-179*		*12/15/2015 22:46*	WG835278
(S) 2-Fluorobiphenyl	*76.6*			*55.5-150*		*12/15/2015 22:46*	WG835278
(S) p-Terphenyl-d14	*65.3*			*46.2-163*		*12/15/2015 22:46*	WG835278

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	12/23/2015 02:39	WG837923
Acrolein	U		0.00887	0.0500	1	12/23/2015 02:39	WG837923
Acrylonitrile	U		0.00187	0.0100	1	12/23/2015 02:39	WG837923
Benzene	U		0.000331	0.00100	1	12/23/2015 02:39	WG837923
Bromobenzene	U		0.000352	0.00100	1	12/23/2015 02:39	WG837923
Bromodichloromethane	U		0.000380	0.00100	1	12/23/2015 02:39	WG837923
Bromoform	U		0.000469	0.00100	1	12/23/2015 02:39	WG837923
Bromomethane	U		0.000866	0.00500	1	12/23/2015 02:39	WG837923
n-Butylbenzene	U		0.000361	0.00100	1	12/23/2015 02:39	WG837923
sec-Butylbenzene	U		0.000365	0.00100	1	12/23/2015 02:39	WG837923
tert-Butylbenzene	U		0.000399	0.00100	1	12/23/2015 02:39	WG837923
Carbon tetrachloride	U		0.000379	0.00100	1	12/23/2015 02:39	WG837923
Chlorobenzene	U		0.000348	0.00100	1	12/23/2015 02:39	WG837923
Chlorodibromomethane	U		0.000327	0.00100	1	12/23/2015 02:39	WG837923
Chloroethane	U		0.000453	0.00500	1	12/23/2015 02:39	WG837923
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	12/23/2015 02:39	WG837923
Chloroform	U		0.000324	0.00500	1	12/23/2015 02:39	WG837923
Chloromethane	U		0.000276	0.00250	1	12/23/2015 02:39	WG837923
2-Chlorotoluene	U		0.000375	0.00100	1	12/23/2015 02:39	WG837923
4-Chlorotoluene	U		0.000351	0.00100	1	12/23/2015 02:39	WG837923
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	12/23/2015 02:39	WG837923
1,2-Dibromoethane	U		0.000381	0.00100	1	12/23/2015 02:39	WG837923
Dibromomethane	U		0.000346	0.00100	1	12/23/2015 02:39	WG837923
1,2-Dichlorobenzene	U		0.000349	0.00100	1	12/23/2015 02:39	WG837923
1,3-Dichlorobenzene	U		0.000220	0.00100	1	12/23/2015 02:39	WG837923
1,4-Dichlorobenzene	U		0.000274	0.00100	1	12/23/2015 02:39	WG837923
Dichlorodifluoromethane	U		0.000551	0.00500	1	12/23/2015 02:39	WG837923
1,1-Dichloroethane	U		0.000259	0.00100	1	12/23/2015 02:39	WG837923
1,2-Dichloroethane	U		0.000361	0.00100	1	12/23/2015 02:39	WG837923
1,1-Dichloroethene	U		0.000398	0.00100	1	12/23/2015 02:39	WG837923
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	12/23/2015 02:39	WG837923
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	12/23/2015 02:39	WG837923
1,2-Dichloropropane	U		0.000306	0.00100	1	12/23/2015 02:39	WG837923
1,1-Dichloropropene	U		0.000352	0.00100	1	12/23/2015 02:39	WG837923
1,3-Dichloropropane	U		0.000366	0.00100	1	12/23/2015 02:39	WG837923
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	12/23/2015 02:39	WG837923
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	12/23/2015 02:39	WG837923
2,2-Dichloropropane	U		0.000321	0.00100	1	12/23/2015 02:39	WG837923
Di-isopropyl ether	U		0.000320	0.00100	1	12/23/2015 02:39	WG837923
Ethylbenzene	U		0.000384	0.00100	1	12/23/2015 02:39	WG837923
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	12/23/2015 02:39	WG837923
Isopropylbenzene	U		0.000326	0.00100	1	12/23/2015 02:39	WG837923
p-Isopropyltoluene	U		0.000350	0.00100	1	12/23/2015 02:39	WG837923
2-Butanone (MEK)	U	J3	0.00393	0.0100	1	12/23/2015 02:39	WG837923
Methylene Chloride	U		0.00100	0.00500	1	12/23/2015 02:39	WG837923
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	12/23/2015 02:39	WG837923
Methyl tert-butyl ether	U		0.000367	0.00100	1	12/23/2015 02:39	WG837923
Naphthalene	U		0.00100	0.00500	1	12/23/2015 02:39	WG837923
n-Propylbenzene	U		0.000349	0.00100	1	12/23/2015 02:39	WG837923
Styrene	U		0.000307	0.00100	1	12/23/2015 02:39	WG837923
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	12/23/2015 02:39	WG837923
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	12/23/2015 02:39	WG837923
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	12/23/2015 02:39	WG837923
Tetrachloroethene	U		0.000372	0.00100	1	12/23/2015 02:39	WG837923
Toluene	U		0.000780	0.00500	1	12/23/2015 02:39	WG837923
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/23/2015 02:39	WG837923

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	12/23/2015 02:39	WG837923
1,1,1-Trichloroethane	U		0.000319	0.00100	1	12/23/2015 02:39	WG837923
1,1,2-Trichloroethane	U		0.000383	0.00100	1	12/23/2015 02:39	WG837923
Trichloroethene	U		0.000398	0.00100	1	12/23/2015 02:39	WG837923
Trichlorofluoromethane	U		0.00120	0.00500	1	12/23/2015 02:39	WG837923
1,2,3-Trichloropropane	U		0.000807	0.00250	1	12/23/2015 02:39	WG837923
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	12/23/2015 02:39	WG837923
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	12/23/2015 02:39	WG837923
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	12/23/2015 02:39	WG837923
Vinyl chloride	U		0.000259	0.00100	1	12/23/2015 02:39	WG837923
Xylenes, Total	U		0.00106	0.00300	1	12/23/2015 02:39	WG837923
(S) Toluene-d8	*105*			*90.0-115*		*12/23/2015 02:39*	WG837923
(S) Dibromofluoromethane	*103*			*79.0-121*		*12/23/2015 02:39*	WG837923
(S) 4-Bromofluorobenzene	*104*			*80.1-120*		*12/23/2015 02:39*	WG837923

Method Blank (MB)

(MB) 12/20/15 21:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100

Method Blank (MB)

(MB) 12/20/15 21:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
Methyl tert-butyl ether	U		0.000367	0.00100
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
Toluene	U		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
Vinyl chloride	U		0.000259	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*103*		*90.0-115*	
(S) Dibromofluoromethane	*103*		*79.0-121*	
(S) 4-Bromofluorobenzene	*87.8*		*80.1-120*	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/20/15 20:02 • (LCSD) 12/20/15 20:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.138	0.133	110	106	28.7-175			3.27	20.9
Acrolein	0.125	0.126	0.135	101	108	40.4-172			6.77	20
Acrylonitrile	0.125	0.148	0.145	118	116	58.2-145			1.70	20
Benzene	0.0250	0.0269	0.0275	108	110	73.0-122			2.09	20
Bromobenzene	0.0250	0.0240	0.0249	96.2	99.8	81.5-115			3.66	20
Bromodichloromethane	0.0250	0.0266	0.0270	106	108	75.5-121			1.38	20
Bromoform	0.0250	0.0278	0.0273	111	109	71.5-131			1.70	20
Bromomethane	0.0250	0.0294	0.0301	118	120	22.4-187			2.20	20
n-Butylbenzene	0.0250	0.0262	0.0276	105	110	75.9-134			5.24	20
sec-Butylbenzene	0.0250	0.0244	0.0263	97.5	105	80.6-126			7.77	20
tert-Butylbenzene	0.0250	0.0249	0.0266	99.6	106	79.3-127			6.50	20
Carbon tetrachloride	0.0250	0.0281	0.0294	112	118	70.9-129			4.80	20
Chlorobenzene	0.0250	0.0250	0.0262	100	105	79.7-122			4.51	20
Chlorodibromomethane	0.0250	0.0258	0.0266	103	106	78.2-124			3.03	20
Chloroethane	0.0250	0.0241	0.0248	96.6	99.3	41.2-153			2.77	20
2-Chloroethyl vinyl ether	0.125	0.656	0.618	525	494	23.4-162	E J4	E J4	6.00	23.5
Chloroform	0.0250	0.0265	0.0268	106	107	73.2-125			1.19	20
Chloromethane	0.0250	0.0327	0.0331	131	132	55.8-134			1.18	20
2-Chlorotoluene	0.0250	0.0250	0.0261	100	104	76.4-125			4.25	20
4-Chlorotoluene	0.0250	0.0249	0.0258	99.6	103	81.5-121			3.71	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0229	0.0210	91.5	84.0	64.8-131			8.46	20
1,2-Dibromoethane	0.0250	0.0247	0.0251	99.0	100	79.8-122			1.32	20
Dibromomethane	0.0250	0.0261	0.0276	105	110	79.5-118			5.28	20
1,2-Dichlorobenzene	0.0250	0.0255	0.0251	102	100	84.7-118			1.80	20
1,3-Dichlorobenzene	0.0250	0.0238	0.0251	95.0	101	77.6-127			5.68	20
1,4-Dichlorobenzene	0.0250	0.0247	0.0248	98.6	99.0	82.2-114			0.390	20
Dichlorodifluoromethane	0.0250	0.0262	0.0265	105	106	56.0-134			0.920	20
1,1-Dichloroethane	0.0250	0.0286	0.0283	114	113	71.7-127			1.02	20
1,2-Dichloroethane	0.0250	0.0241	0.0236	96.5	94.4	65.3-126			2.21	20
1,1-Dichloroethene	0.0250	0.0232	0.0240	92.9	96.0	59.9-137			3.23	20
cis-1,2-Dichloroethene	0.0250	0.0270	0.0269	108	108	77.3-122			0.370	20
trans-1,2-Dichloroethene	0.0250	0.0271	0.0274	109	110	72.6-125			1.13	20
1,2-Dichloropropane	0.0250	0.0301	0.0301	121	120	77.4-125			0.240	20
1,1-Dichloropropene	0.0250	0.0270	0.0280	108	112	72.5-127			3.41	20
1,3-Dichloropropane	0.0250	0.0245	0.0254	97.9	101	80.6-115			3.59	20
cis-1,3-Dichloropropene	0.0250	0.0298	0.0293	119	117	77.7-124			1.74	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/20/15 20:02 • (LCSD) 12/20/15 20:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0280	0.0283	112	113	73.5-127			0.940	20
2,2-Dichloropropane	0.0250	0.0304	0.0317	122	127	61.3-134			4.01	20
Di-isopropyl ether	0.0250	0.0308	0.0308	123	123	65.1-135			0.0500	20
Ethylbenzene	0.0250	0.0249	0.0265	99.5	106	80.9-121			6.21	20
Hexachloro-1,3-butadiene	0.0250	0.0241	0.0236	96.3	94.3	73.7-133			2.17	20
Isopropylbenzene	0.0250	0.0249	0.0265	99.4	106	81.6-124			6.39	20
p-Isopropyltoluene	0.0250	0.0246	0.0265	98.6	106	77.6-129			7.34	20
2-Butanone (MEK)	0.125	0.160	0.155	128	124	46.4-155			3.12	20
Methylene Chloride	0.0250	0.0231	0.0237	92.2	95.0	69.5-120			2.98	20
4-Methyl-2-pentanone (MIBK)	0.125	0.133	0.131	106	104	63.3-138			1.68	20
Methyl tert-butyl ether	0.0250	0.0254	0.0251	102	100	70.1-125			1.31	20
n-Propylbenzene	0.0250	0.0250	0.0267	99.9	107	81.9-122			6.79	20
Styrene	0.0250	0.0240	0.0244	96.0	97.7	79.9-124			1.80	20
1,1,1,2-Tetrachloroethane	0.0250	0.0256	0.0267	102	107	78.5-125			4.18	20
1,1,2,2-Tetrachloroethane	0.0250	0.0239	0.0244	95.4	97.4	79.3-123			2.07	20
Tetrachloroethene	0.0250	0.0252	0.0262	101	105	73.5-130			3.69	20
Toluene	0.0250	0.0267	0.0271	107	108	77.9-116			1.43	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0268	0.0273	107	109	62.0-141			1.66	20
1,2,3-Trichlorobenzene	0.0250	0.0200	0.0208	79.8	83.3	75.7-134			4.22	20
1,2,4-Trichlorobenzene	0.0250	0.0216	0.0223	86.5	89.4	76.1-136			3.22	20
1,1,1-Trichloroethane	0.0250	0.0266	0.0278	106	111	71.1-129			4.31	20
1,1,2-Trichloroethane	0.0250	0.0250	0.0248	99.8	99.0	81.6-120			0.850	20
Trichloroethene	0.0250	0.0271	0.0277	108	111	79.5-121			2.28	20
Trichlorofluoromethane	0.0250	0.0263	0.0270	105	108	49.1-157			2.46	20
1,2,3-Trichloropropane	0.0250	0.0234	0.0233	93.5	93.2	74.9-124			0.370	20
1,2,3-Trimethylbenzene	0.0250	0.0261	0.0263	105	105	79.9-118			0.680	20
1,2,4-Trimethylbenzene	0.0250	0.0247	0.0262	98.8	105	79.0-122			5.73	20
1,3,5-Trimethylbenzene	0.0250	0.0247	0.0263	98.6	105	81.0-123			6.49	20
Vinyl chloride	0.0250	0.0252	0.0262	101	105	61.5-134			3.85	20
Xylenes, Total	0.0750	0.0753	0.0799	100	107	79.2-122			5.96	20
(S) Toluene-d8				*106*	*105*	*90.0-115*				
(S) Dibromofluoromethane				*97.2*	*97.9*	*79.0-121*				
(S) 4-Bromofluorobenzene				*89.7*	*91.9*	*80.1-120*				

L806117-01 Original Sample (OS) • Matrix Spike (MS)

(OS) 12/21/15 04:03 • (MS) 12/20/15 21:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Acetone	0.125	0.00249	0.0478	36.2	1	25.0-156	
Acrolein	0.125	ND	0.101	80.9	1	34.0-194	
Acrylonitrile	0.125	ND	0.130	104	1	55.9-161	
Benzene	0.0250	ND	0.0230	91.8	1	58.6-133	
Bromobenzene	0.0250	ND	0.0219	87.8	1	70.6-125	
Bromodichloromethane	0.0250	ND	0.0237	94.7	1	69.2-127	
Bromoform	0.0250	ND	0.0248	99.3	1	66.3-140	
Bromomethane	0.0250	ND	0.0224	89.5	1	16.6-183	
n-Butylbenzene	0.0250	ND	0.0253	101	1	64.8-145	
sec-Butylbenzene	0.0250	ND	0.0233	93.1	1	66.8-139	
tert-Butylbenzene	0.0250	ND	0.0234	93.6	1	67.1-138	
Carbon tetrachloride	0.0250	ND	0.0251	101	1	60.6-139	
Chlorobenzene	0.0250	ND	0.0226	90.5	1	70.1-130	
Chlorodibromomethane	0.0250	ND	0.0234	93.6	1	71.6-132	
Chloroethane	0.0250	ND	0.0191	76.6	1	33.3-155	
2-Chloroethyl vinyl ether	0.125	ND	0.00871	6.96	1	5.00-149	
Chloroform	0.0250	ND	0.0233	93.2	1	66.1-133	
Chloromethane	0.0250	ND	0.0232	92.9	1	40.7-139	
2-Chlorotoluene	0.0250	ND	0.0228	91.0	1	66.9-134	
4-Chlorotoluene	0.0250	ND	0.0228	91.2	1	66.8-134	
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0180	72.1	1	63.9-142	
1,2-Dibromoethane	0.0250	ND	0.0222	88.7	1	73.8-131	
Dibromomethane	0.0250	0.000356	0.0233	91.6	1	72.8-127	
1,2-Dichlorobenzene	0.0250	ND	0.0238	95.2	1	77.4-127	
1,3-Dichlorobenzene	0.0250	ND	0.0221	88.5	1	67.9-136	
1,4-Dichlorobenzene	0.0250	ND	0.0225	90.1	1	74.4-123	
Dichlorodifluoromethane	0.0250	ND	0.0210	83.9	1	42.2-146	
1,1-Dichloroethane	0.0250	0.000238	0.0248	98.4	1	64.0-134	
1,2-Dichloroethane	0.0250	ND	0.0208	83.1	1	60.7-132	
1,1-Dichloroethene	0.0250	ND	0.0194	77.5	1	48.8-144	
cis-1,2-Dichloroethene	0.0250	ND	0.0224	89.7	1	60.6-136	
trans-1,2-Dichloroethene	0.0250	ND	0.0222	88.8	1	61.0-132	
1,2-Dichloropropane	0.0250	0.00149	0.0257	96.7	1	69.7-130	
1,1-Dichloropropene	0.0250	ND	0.0227	90.9	1	61.5-136	
cis-1,3-Dichloropropene	0.0250	ND	0.0246	98.2	1	71.1-129	
1,3-Dichloropropane	0.0250	ND	0.0223	89.2	1	74.3-123	

L806117-01 Original Sample (OS) • Matrix Spike (MS)

(OS) 12/21/15 04:03 • (MS) 12/20/15 21:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
trans-1,3-Dichloropropene	0.0250	0.000582	0.0242	94.4	1	66.3-136	
2,2-Dichloropropane	0.0250	ND	0.0265	106	1	54.9-142	
Ethylbenzene	0.0250	ND	0.0230	92.1	1	62.7-136	
Di-isopropyl ether	0.0250	ND	0.0269	108	1	59.9-140	
Hexachloro-1,3-butadiene	0.0250	ND	0.0220	88.1	1	61.1-144	
Isopropylbenzene	0.0250	ND	0.0229	91.7	1	67.4-136	
p-Isopropyltoluene	0.0250	ND	0.0234	93.5	1	62.8-143	
Methylene Chloride	0.0250	0.000237	0.0198	78.1	1	61.5-125	
2-Butanone (MEK)	0.125	0.000488	0.0875	69.6	1	45.0-156	
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.110	87.7	1	60.7-150	
Methyl tert-butyl ether	0.0250	ND	0.0220	88.1	1	61.4-136	
n-Propylbenzene	0.0250	ND	0.0233	93.3	1	63.2-139	
Styrene	0.0250	ND	0.0213	85.1	1	68.2-133	
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0225	90.1	1	64.9-145	
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0243	97.3	1	70.5-132	
Tetrachloroethene	0.0250	ND	0.0225	90.0	1	57.4-141	
Toluene	0.0250	ND	0.0227	90.9	1	67.8-124	
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0235	93.8	1	53.7-150	
1,2,3-Trichlorobenzene	0.0250	ND	0.0171	68.6	1	65.7-143	
1,1,1-Trichloroethane	0.0250	0.000717	0.0237	91.9	1	58.7-134	
1,2,4-Trichlorobenzene	0.0250	ND	0.0200	80.1	1	67.0-146	
1,1,2-Trichloroethane	0.0250	ND	0.0224	89.5	1	74.1-130	
Trichloroethene	0.0250	0.000345	0.0233	92.0	1	48.9-148	
Trichlorofluoromethane	0.0250	ND	0.0217	86.9	1	39.9-165	
1,2,3-Trichloropropane	0.0250	ND	0.0204	81.7	1	71.5-134	
1,2,3-Trimethylbenzene	0.0250	ND	0.0235	94.2	1	62.7-133	
1,2,4-Trimethylbenzene	0.0250	0.000220	0.0230	91.1	1	60.5-137	
1,3,5-Trimethylbenzene	0.0250	ND	0.0233	93.1	1	67.9-134	
Vinyl chloride	0.0250	ND	0.0191	76.4	1	44.3-143	
Xylenes, Total	0.0750	ND	0.0689	91.9	1	65.6-133	
(S) Toluene-d8				*101*		*90.0-115*	
(S) Dibromofluoromethane				*99.3*		*79.0-121*	
(S) 4-Bromofluorobenzene				*89.9*		*80.1-120*	

Method Blank (MB)

(MB) 12/21/15 17:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100

Method Blank (MB)

(MB) 12/21/15 17:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Tetrachloroethene	U		0.000372	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
Trichloroethene	U		0.000398	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
Vinyl chloride	U		0.000259	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*104*			*90.0-115*
(S) Dibromofluoromethane	*100*			*79.0-121*
(S) 4-Bromofluorobenzene	*101*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/21/15 11:24 • (LCSD) 12/21/15 13:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.168	0.159	135	127	28.7-175			5.67	20.9
Acrolein	0.125	0.218	0.199	175	159	40.4-172	J4		9.15	20
Acrylonitrile	0.125	0.127	0.130	101	104	58.2-145			2.28	20
Benzene	0.0250	0.0267	0.0229	107	91.7	73.0-122			15.2	20
Bromobenzene	0.0250	0.0257	0.0224	103	89.7	81.5-115			13.5	20
Bromodichloromethane	0.0250	0.0259	0.0230	103	91.8	75.5-121			11.9	20
Bromoform	0.0250	0.0252	0.0228	101	91.2	71.5-131			9.96	20
Bromomethane	0.0250	0.0309	0.0259	124	104	22.4-187			17.5	20
n-Butylbenzene	0.0250	0.0294	0.0235	117	93.9	75.9-134		J3	22.4	20
sec-Butylbenzene	0.0250	0.0271	0.0225	109	90.1	80.6-126			18.6	20
tert-Butylbenzene	0.0250	0.0270	0.0220	108	88.0	79.3-127		J3	20.4	20
Carbon tetrachloride	0.0250	0.0280	0.0246	112	98.6	70.9-129			12.9	20
Chlorobenzene	0.0250	0.0272	0.0227	109	90.8	79.7-122			18.1	20
Chlorodibromomethane	0.0250	0.0267	0.0238	107	95.2	78.2-124			11.7	20
Chloroethane	0.0250	0.0273	0.0228	109	91.2	41.2-153			18.0	20
Chloroform	0.0250	0.0262	0.0228	105	91.2	73.2-125			14.1	20
2-Chloroethyl vinyl ether	0.125	0.113	0.106	90.1	85.0	23.4-162			5.85	23.5
Chloromethane	0.0250	0.0276	0.0240	111	96.1	55.8-134			14.0	20
2-Chlorotoluene	0.0250	0.0265	0.0236	106	94.2	76.4-125			11.8	20
4-Chlorotoluene	0.0250	0.0275	0.0233	110	93.4	81.5-121			16.3	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0245	0.0216	97.8	86.3	64.8-131			12.5	20
1,2-Dibromoethane	0.0250	0.0260	0.0233	104	93.1	79.8-122			10.9	20
Dibromomethane	0.0250	0.0252	0.0241	101	96.5	79.5-118			4.46	20
1,2-Dichlorobenzene	0.0250	0.0272	0.0237	109	94.9	84.7-118			13.8	20
1,3-Dichlorobenzene	0.0250	0.0275	0.0234	110	93.8	77.6-127			15.9	20
1,4-Dichlorobenzene	0.0250	0.0269	0.0228	108	91.3	82.2-114			16.3	20
Dichlorodifluoromethane	0.0250	0.0311	0.0246	124	98.5	56.0-134		J3	23.3	20
1,1-Dichloroethane	0.0250	0.0273	0.0233	109	93.2	71.7-127			16.0	20
1,2-Dichloroethane	0.0250	0.0272	0.0251	109	100	65.3-126			7.90	20
1,1-Dichloroethene	0.0250	0.0298	0.0259	119	103	59.9-137			14.0	20
cis-1,2-Dichloroethene	0.0250	0.0272	0.0234	109	93.5	77.3-122			15.2	20
trans-1,2-Dichloroethene	0.0250	0.0266	0.0224	106	89.4	72.6-125			17.2	20
1,2-Dichloropropane	0.0250	0.0256	0.0238	102	95.0	77.4-125			7.44	20
1,1-Dichloropropene	0.0250	0.0270	0.0226	108	90.5	72.5-127			17.5	20
1,3-Dichloropropane	0.0250	0.0262	0.0230	105	92.0	80.6-115			13.1	20
cis-1,3-Dichloropropene	0.0250	0.0253	0.0233	101	93.1	77.7-124			8.15	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/21/15 11:24 • (LCSD) 12/21/15 13:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0259	0.0234	104	93.6	73.5-127			10.1	20
2,2-Dichloropropane	0.0250	0.0257	0.0231	103	92.4	61.3-134			10.6	20
Di-isopropyl ether	0.0250	0.0263	0.0237	105	94.7	65.1-135			10.4	20
Ethylbenzene	0.0250	0.0283	0.0234	113	93.6	80.9-121			19.2	20
Hexachloro-1,3-butadiene	0.0250	0.0289	0.0207	116	82.9	73.7-133		J3	33.0	20
Isopropylbenzene	0.0250	0.0268	0.0226	107	90.5	81.6-124			16.9	20
p-Isopropyltoluene	0.0250	0.0270	0.0224	108	89.5	77.6-129			18.8	20
2-Butanone (MEK)	0.125	0.129	0.124	103	99.2	46.4-155			3.70	20
Methylene Chloride	0.0250	0.0259	0.0253	104	101	69.5-120			2.31	20
4-Methyl-2-pentanone (MIBK)	0.125	0.115	0.113	92.1	90.7	63.3-138			1.49	20
Methyl tert-butyl ether	0.0250	0.0255	0.0242	102	96.7	70.1-125			5.35	20
Naphthalene	0.0250	0.0265	0.0194	106	77.8	69.7-134		J3	30.6	20
n-Propylbenzene	0.0250	0.0272	0.0229	109	91.6	81.9-122			17.3	20
Styrene	0.0250	0.0275	0.0234	110	93.5	79.9-124			16.4	20
1,1,1,2-Tetrachloroethane	0.0250	0.0264	0.0238	105	95.3	78.5-125			10.1	20
Tetrachloroethene	0.0250	0.0276	0.0235	110	94.1	73.5-130			15.8	20
1,1,2,2-Tetrachloroethane	0.0250	0.0235	0.0220	94.1	88.1	79.3-123			6.60	20
Toluene	0.0250	0.0255	0.0224	102	89.7	77.9-116			12.8	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0271	0.0244	109	97.5	62.0-141			10.7	20
1,2,3-Trichlorobenzene	0.0250	0.0279	0.0185	112	74.1	75.7-134		J3 J4	40.4	20
1,2,4-Trichlorobenzene	0.0250	0.0301	0.0206	120	82.3	76.1-136		J3	37.7	20
1,1,1-Trichloroethane	0.0250	0.0262	0.0218	105	87.1	71.1-129			18.5	20
Trichloroethene	0.0250	0.0270	0.0241	108	96.2	79.5-121			11.6	20
1,1,2-Trichloroethane	0.0250	0.0260	0.0232	104	92.6	81.6-120			11.5	20
Trichlorofluoromethane	0.0250	0.0284	0.0272	114	109	49.1-157			4.50	20
1,2,3-Trichloropropane	0.0250	0.0239	0.0235	95.7	94.0	74.9-124			1.79	20
1,2,3-Trimethylbenzene	0.0250	0.0269	0.0230	108	91.8	79.9-118			15.8	20
1,2,4-Trimethylbenzene	0.0250	0.0268	0.0226	107	90.3	79.0-122			17.1	20
1,3,5-Trimethylbenzene	0.0250	0.0267	0.0229	107	91.5	81.0-123			15.6	20
Vinyl chloride	0.0250	0.0294	0.0253	118	101	61.5-134			15.2	20
Xylenes, Total	0.0750	0.0815	0.0688	109	91.7	79.2-122			16.9	20
(S) Toluene-d8				*101*	*103*	*90.0-115*				
(S) Dibromofluoromethane				*103*	*102*	*79.0-121*				
(S) 4-Bromofluorobenzene				*98.6*	*98.6*	*80.1-120*				

L806224-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/21/15 19:10 • (MS) 12/21/15 18:00 • (MSD) 12/21/15 18:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	ND	0.0685	0.0694	54.8	55.5	1	25.0-156			1.26	21.5
Acrolein	0.125	ND	0.183	0.169	147	135	1	34.0-194			8.11	21.5
Acrylonitrile	0.125	ND	0.130	0.121	104	97.2	1	55.9-161			6.79	20
Benzene	0.0250	0.000234	0.0282	0.0272	112	108	1	58.6-133			3.68	20
Bromobenzene	0.0250	ND	0.0282	0.0285	113	114	1	70.6-125			0.880	20
Bromodichloromethane	0.0250	ND	0.0276	0.0268	111	107	1	69.2-127			3.13	20
Bromoform	0.0250	ND	0.0267	0.0269	107	108	1	66.3-140			0.730	20
Bromomethane	0.0250	ND	0.0312	0.0282	125	113	1	16.6-183			10.2	20.5
n-Butylbenzene	0.0250	0.000268	0.0337	0.0325	134	129	1	64.8-145			3.59	20
sec-Butylbenzene	0.0250	ND	0.0320	0.0327	128	131	1	66.8-139			2.14	20
tert-Butylbenzene	0.0250	ND	0.0312	0.0310	125	124	1	67.1-138			0.650	20
Carbon tetrachloride	0.0250	ND	0.0334	0.0321	134	128	1	60.6-139			4.05	20
Chlorobenzene	0.0250	ND	0.0297	0.0292	119	117	1	70.1-130			1.49	20
Chlorodibromomethane	0.0250	ND	0.0289	0.0280	116	112	1	71.6-132			3.00	20
Chloroethane	0.0250	ND	0.0296	0.0286	119	114	1	33.3-155			3.57	20
Chloroform	0.0250	ND	0.0285	0.0265	114	106	1	66.1-133			6.98	20
2-Chloroethyl vinyl ether	0.125	ND	0.0639	0.0239	51.1	19.1	1	5.00-149		J3	91.1	40
Chloromethane	0.0250	ND	0.0272	0.0247	109	98.9	1	40.7-139			9.66	20
2-Chlorotoluene	0.0250	ND	0.0308	0.0308	123	123	1	66.9-134			0.230	20
4-Chlorotoluene	0.0250	ND	0.0301	0.0303	121	121	1	66.8-134			0.700	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0244	0.0250	97.7	99.9	1	63.9-142			2.26	20.2
1,2-Dibromoethane	0.0250	ND	0.0278	0.0274	111	110	1	73.8-131			1.36	20
Dibromomethane	0.0250	ND	0.0269	0.0266	108	107	1	72.8-127			0.990	20
1,2-Dichlorobenzene	0.0250	ND	0.0292	0.0281	117	112	1	77.4-127			3.83	20
1,3-Dichlorobenzene	0.0250	ND	0.0306	0.0309	123	124	1	67.9-136			0.930	20
1,4-Dichlorobenzene	0.0250	ND	0.0300	0.0284	120	113	1	74.4-123			5.56	20
Dichlorodifluoromethane	0.0250	ND	0.0319	0.0302	128	121	1	42.2-146			5.71	20
1,2-Dichloroethane	0.0250	ND	0.0271	0.0258	108	103	1	60.7-132			4.75	20
1,1-Dichloroethane	0.0250	ND	0.0285	0.0270	114	108	1	64.0-134			5.71	20
cis-1,2-Dichloroethene	0.0250	ND	0.0287	0.0265	115	106	1	60.6-136			8.04	20
1,1-Dichloroethene	0.0250	ND	0.0348	0.0320	139	128	1	48.8-144			8.19	20
trans-1,2-Dichloroethene	0.0250	ND	0.0281	0.0262	112	105	1	61.0-132			7.09	20
1,2-Dichloropropane	0.0250	ND	0.0273	0.0263	109	105	1	69.7-130			3.77	20
1,1-Dichloropropene	0.0250	ND	0.0294	0.0288	118	115	1	61.5-136			2.08	20
1,3-Dichloropropane	0.0250	ND	0.0279	0.0270	112	108	1	74.3-123			3.20	20
cis-1,3-Dichloropropene	0.0250	ND	0.0269	0.0265	108	106	1	71.1-129			1.79	20

L806224-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/21/15 19:10 • (MS) 12/21/15 18:00 • (MSD) 12/21/15 18:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0268	0.0264	107	106	1	66.3-136			1.50	20
2,2-Dichloropropane	0.0250	ND	0.0317	0.0291	127	116	1	54.9-142			8.61	20
Di-isopropyl ether	0.0250	ND	0.0280	0.0257	112	103	1	59.9-140			8.72	20
Ethylbenzene	0.0250	0.00401	0.0352	0.0355	125	126	1	62.7-136			0.810	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0334	0.0316	134	127	1	61.1-144			5.48	20.1
Isopropylbenzene	0.0250	0.00124	0.0322	0.0328	124	126	1	67.4-136			1.81	20
p-Isopropyltoluene	0.0250	0.000224	0.0329	0.0330	131	131	1	62.8-143			0.260	20
2-Butanone (MEK)	0.125	ND	0.0876	0.0873	70.1	69.9	1	45.0-156			0.350	20.8
Methylene Chloride	0.0250	0.000405	0.0259	0.0235	102	92.2	1	61.5-125			10.0	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.113	0.119	90.7	95.4	1	60.7-150			5.06	20
Methyl tert-butyl ether	0.0250	ND	0.0272	0.0251	109	100	1	61.4-136			7.95	20
Naphthalene	0.0250	0.0521	0.0745	0.0815	89.8	118	1	61.8-143			8.95	20
n-Propylbenzene	0.0250	0.000553	0.0323	0.0327	127	129	1	63.2-139			1.29	20
Styrene	0.0250	0.000507	0.0305	0.0307	120	121	1	68.2-133			0.670	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0296	0.0289	118	116	1	70.5-132			2.33	20
Tetrachloroethene	0.0250	ND	0.0316	0.0327	126	131	1	57.4-141			3.51	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0253	0.0255	101	102	1	64.9-145			0.780	20
Toluene	0.0250	0.000308	0.0286	0.0284	113	112	1	67.8-124			0.890	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0413	0.0299	165	120	1	53.7-150	J5	J3	31.9	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0294	0.0287	117	115	1	65.7-143			2.21	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0313	0.0303	125	121	1	67.0-146			3.17	20
1,1,1-Trichloroethane	0.0250	ND	0.0311	0.0297	124	119	1	58.7-134			4.78	20
1,1,2-Trichloroethane	0.0250	ND	0.0272	0.0276	109	110	1	74.1-130			1.70	20
Trichloroethene	0.0250	ND	0.0303	0.0307	121	123	1	48.9-148			1.38	20
Trichlorofluoromethane	0.0250	ND	0.0383	0.0344	153	137	1	39.9-165			10.7	20
1,2,3-Trichloropropane	0.0250	ND	0.0246	0.0274	98.6	110	1	71.5-134			10.8	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0312	0.0303	125	121	1	62.7-133			2.70	20
1,2,4-Trimethylbenzene	0.0250	0.00563	0.0360	0.0355	121	119	1	60.5-137			1.42	20
1,3,5-Trimethylbenzene	0.0250	0.00164	0.0327	0.0325	124	123	1	67.9-134			0.640	20
Vinyl chloride	0.0250	ND	0.0314	0.0287	126	115	1	44.3-143			9.12	20
Xylenes, Total	0.0750	0.00335	0.0941	0.0946	121	122	1	65.6-133			0.560	20
(S) Toluene-d8					*103*	*106*		*90.0-115*				
(S) Dibromofluoromethane					*103*	*101*		*79.0-121*				
(S) 4-Bromofluorobenzene					*101*	*106*		*80.1-120*				

Method Blank (MB)

(MB) 12/22/15 20:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100

Method Blank (MB)

(MB) 12/22/15 20:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
Methyl tert-butyl ether	U		0.000367	0.00100
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Naphthalene	U		0.00100	0.00500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
Toluene	U		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
Trichloroethene	U		0.000398	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
Vinyl chloride	U		0.000259	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*111*			*90.0-115*
(S) Dibromofluoromethane	*108*			*79.0-121*
(S) 4-Bromofluorobenzene	*101*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/22/15 20:06 • (LCSD) 12/22/15 21:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.138	0.178	111	143	28.7-175		J3	25.3	20.9
Acrolein	0.125	0.0914	0.0783	73.1	62.7	40.4-172			15.4	20
Benzene	0.0250	0.0265	0.0261	106	105	73.0-122			1.49	20
Acrylonitrile	0.125	0.165	0.148	132	119	58.2-145			10.6	20
Bromobenzene	0.0250	0.0241	0.0244	96.5	97.5	81.5-115			1.05	20
Bromodichloromethane	0.0250	0.0247	0.0252	98.7	101	75.5-121			2.13	20
Bromoform	0.0250	0.0205	0.0200	81.9	79.8	71.5-131			2.55	20
Bromomethane	0.0250	0.0476	0.0470	190	188	22.4-187	J4	J4	1.10	20
n-Butylbenzene	0.0250	0.0273	0.0263	109	105	75.9-134			3.84	20
sec-Butylbenzene	0.0250	0.0245	0.0245	98.1	98.2	80.6-126			0.130	20
tert-Butylbenzene	0.0250	0.0237	0.0240	94.7	95.9	79.3-127			1.22	20
Carbon tetrachloride	0.0250	0.0250	0.0244	99.9	97.8	70.9-129			2.18	20
Chlorobenzene	0.0250	0.0223	0.0224	89.2	89.7	79.7-122			0.480	20
Chlorodibromomethane	0.0250	0.0211	0.0213	84.6	85.3	78.2-124			0.860	20
Chloroethane	0.0250	0.0345	0.0329	138	132	41.2-153			4.52	20
2-Chloroethyl vinyl ether	0.125	0.125	0.127	100	102	23.4-162			1.69	23.5
Chloroform	0.0250	0.0268	0.0264	107	106	73.2-125			1.23	20
Chloromethane	0.0250	0.0252	0.0237	101	94.6	55.8-134			6.35	20
2-Chlorotoluene	0.0250	0.0222	0.0228	88.7	91.2	76.4-125			2.73	20
4-Chlorotoluene	0.0250	0.0243	0.0247	97.1	98.9	81.5-121			1.88	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0220	0.0195	87.9	78.0	64.8-131			12.0	20
1,2-Dibromoethane	0.0250	0.0216	0.0218	86.5	87.1	79.8-122			0.660	20
1,2-Dichlorobenzene	0.0250	0.0240	0.0232	95.9	92.8	84.7-118			3.30	20
Dibromomethane	0.0250	0.0251	0.0246	100	98.4	79.5-118			1.94	20
1,3-Dichlorobenzene	0.0250	0.0226	0.0230	90.3	92.1	77.6-127			1.92	20
1,4-Dichlorobenzene	0.0250	0.0235	0.0237	93.9	94.8	82.2-114			0.940	20
Dichlorodifluoromethane	0.0250	0.0269	0.0259	108	104	56.0-134			3.95	20
1,1-Dichloroethane	0.0250	0.0274	0.0270	110	108	71.7-127			1.53	20
1,2-Dichloroethane	0.0250	0.0275	0.0262	110	105	65.3-126			4.83	20
1,1-Dichloroethene	0.0250	0.0298	0.0293	119	117	59.9-137			1.70	20
cis-1,2-Dichloroethene	0.0250	0.0265	0.0256	106	102	77.3-122			3.63	20
trans-1,2-Dichloroethene	0.0250	0.0265	0.0251	106	100	72.6-125			5.36	20
1,2-Dichloropropane	0.0250	0.0264	0.0266	106	107	77.4-125			0.940	20
1,1-Dichloropropene	0.0250	0.0263	0.0255	105	102	72.5-127			3.37	20
cis-1,3-Dichloropropene	0.0250	0.0249	0.0251	99.5	101	77.7-124			1.07	20
1,3-Dichloropropane	0.0250	0.0224	0.0228	89.6	91.1	80.6-115			1.74	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/22/15 20:06 • (LCSD) 12/22/15 21:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0243	0.0261	97.4	105	73.5-127			7.16	20
2,2-Dichloropropane	0.0250	0.0301	0.0296	120	119	61.3-134			1.52	20
Ethylbenzene	0.0250	0.0226	0.0227	90.6	90.6	80.9-121			0.0100	20
Di-isopropyl ether	0.0250	0.0280	0.0278	112	111	65.1-135			0.510	20
Hexachloro-1,3-butadiene	0.0250	0.0201	0.0215	80.4	85.9	73.7-133			6.55	20
Isopropylbenzene	0.0250	0.0233	0.0238	93.3	95.2	81.6-124			2.01	20
p-Isopropyltoluene	0.0250	0.0234	0.0246	93.8	98.3	77.6-129			4.71	20
Methylene Chloride	0.0250	0.0244	0.0238	97.5	95.3	69.5-120			2.21	20
2-Butanone (MEK)	0.125	0.145	0.140	116	112	46.4-155			3.62	20
Methyl tert-butyl ether	0.0250	0.0273	0.0259	109	104	70.1-125			5.19	20
4-Methyl-2-pentanone (MIBK)	0.125	0.139	0.132	111	106	63.3-138			4.99	20
Naphthalene	0.0250	0.0216	0.0222	86.4	88.9	69.7-134			2.89	20
n-Propylbenzene	0.0250	0.0243	0.0244	97.1	97.6	81.9-122			0.510	20
Styrene	0.0250	0.0237	0.0238	94.7	95.2	79.9-124			0.550	20
1,1,1,2-Tetrachloroethane	0.0250	0.0214	0.0215	85.7	85.9	78.5-125			0.330	20
1,1,2,2-Tetrachloroethane	0.0250	0.0243	0.0237	97.3	94.9	79.3-123			2.59	20
Tetrachloroethene	0.0250	0.0206	0.0210	82.4	84.0	73.5-130			1.88	20
Toluene	0.0250	0.0233	0.0240	93.1	95.9	77.9-116			3.01	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0321	0.0306	128	122	62.0-141			4.85	20
1,2,3-Trichlorobenzene	0.0250	0.0190	0.0223	76.0	89.3	75.7-134			16.2	20
1,2,4-Trichlorobenzene	0.0250	0.0201	0.0221	80.2	88.3	76.1-136			9.56	20
1,1,1-Trichloroethane	0.0250	0.0288	0.0278	115	111	71.1-129			3.54	20
1,1,2-Trichloroethane	0.0250	0.0224	0.0223	89.8	89.1	81.6-120			0.750	20
Trichloroethene	0.0250	0.0239	0.0236	95.5	94.3	79.5-121			1.28	20
Trichlorofluoromethane	0.0250	0.0365	0.0334	146	133	49.1-157			9.14	20
1,2,3-Trichloropropane	0.0250	0.0240	0.0233	95.9	93.3	74.9-124			2.73	20
1,2,3-Trimethylbenzene	0.0250	0.0245	0.0244	98.1	97.6	79.9-118			0.540	20
1,2,4-Trimethylbenzene	0.0250	0.0232	0.0244	92.7	97.6	79.0-122			5.15	20
1,3,5-Trimethylbenzene	0.0250	0.0233	0.0241	93.0	96.5	81.0-123			3.65	20
Vinyl chloride	0.0250	0.0270	0.0255	108	102	61.5-134			5.88	20
Xylenes, Total	0.0750	0.0690	0.0691	92.0	92.1	79.2-122			0.100	20
(S) Toluene-d8				*109*	*110*	*90.0-115*				
(S) Dibromofluoromethane				*110*	*110*	*79.0-121*				
(S) 4-Bromofluorobenzene				*98.9*	*103*	*80.1-120*				

L807675-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/22/15 23:27 • (MS) 12/22/15 22:14 • (MSD) 12/22/15 22:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00388	0.0817	0.0878	62.3	67.2	1	25.0-156			7.21	21.5
Acrolein	0.125	0.00150	0.185	0.193	147	153	1	34.0-194			4.11	21.5
Benzene	0.0250	ND	0.0253	0.0263	101	105	1	58.6-133			3.74	20
Acrylonitrile	0.125	ND	0.144	0.156	115	125	1	55.9-161			8.50	20
Bromobenzene	0.0250	ND	0.0249	0.0252	99.8	101	1	70.6-125			1.07	20
Bromodichloromethane	0.0250	ND	0.0248	0.0252	99.3	101	1	69.2-127			1.65	20
Bromoform	0.0250	ND	0.0202	0.0205	80.8	82.2	1	66.3-140			1.72	20
Bromomethane	0.0250	ND	0.0405	0.0429	162	172	1	16.6-183			5.84	20.5
n-Butylbenzene	0.0250	ND	0.0273	0.0280	109	112	1	64.8-145			2.54	20
sec-Butylbenzene	0.0250	ND	0.0249	0.0258	99.4	103	1	66.8-139			3.63	20
tert-Butylbenzene	0.0250	ND	0.0245	0.0246	98.0	98.5	1	67.1-138			0.500	20
Carbon tetrachloride	0.0250	ND	0.0237	0.0250	94.8	99.9	1	60.6-139			5.32	20
Chlorobenzene	0.0250	ND	0.0230	0.0229	92.1	91.5	1	70.1-130			0.680	20
Chlorodibromomethane	0.0250	ND	0.0216	0.0219	86.4	87.5	1	71.6-132			1.29	20
Chloroethane	0.0250	ND	0.0307	0.0316	123	127	1	33.3-155			3.13	20
2-Chloroethyl vinyl ether	0.125	ND	0.000269	0.000405	0.215	0.324	1	5.00-149	J6	J3 J6	40.4	40
Chloroform	0.0250	ND	0.0258	0.0269	103	107	1	66.1-133			3.90	20
Chloromethane	0.0250	ND	0.0219	0.0233	87.6	93.3	1	40.7-139			6.35	20
2-Chlorotoluene	0.0250	ND	0.0233	0.0239	93.2	95.7	1	66.9-134			2.71	20
4-Chlorotoluene	0.0250	ND	0.0248	0.0250	99.4	100	1	66.8-134			0.600	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0207	0.0215	82.9	86.1	1	63.9-142			3.87	20.2
1,2-Dibromoethane	0.0250	ND	0.0216	0.0221	86.4	88.5	1	73.8-131			2.38	20
Dibromomethane	0.0250	ND	0.0242	0.0246	96.9	98.4	1	72.8-127			1.48	20
1,2-Dichlorobenzene	0.0250	ND	0.0243	0.0245	97.1	97.8	1	77.4-127			0.730	20
1,3-Dichlorobenzene	0.0250	ND	0.0233	0.0239	93.3	95.4	1	67.9-136			2.21	20
1,4-Dichlorobenzene	0.0250	ND	0.0236	0.0242	94.2	96.8	1	74.4-123			2.72	20
Dichlorodifluoromethane	0.0250	ND	0.0264	0.0276	106	110	1	42.2-146			4.54	20
1,1-Dichloroethane	0.0250	ND	0.0262	0.0273	105	109	1	64.0-134			4.12	20
1,2-Dichloroethane	0.0250	ND	0.0253	0.0274	101	109	1	60.7-132			7.89	20
1,1-Dichloroethene	0.0250	ND	0.0267	0.0282	107	113	1	48.8-144			5.73	20
trans-1,2-Dichloroethene	0.0250	ND	0.0240	0.0254	96.0	101	1	61.0-132			5.57	20
cis-1,2-Dichloroethene	0.0250	ND	0.0250	0.0263	99.9	105	1	60.6-136			4.96	20
1,2-Dichloropropane	0.0250	ND	0.0261	0.0267	104	107	1	69.7-130			2.41	20
1,1-Dichloropropene	0.0250	ND	0.0247	0.0259	99.0	104	1	61.5-136			4.59	20
cis-1,3-Dichloropropene	0.0250	ND	0.0241	0.0243	96.5	97.1	1	71.1-129			0.590	20
1,3-Dichloropropane	0.0250	ND	0.0221	0.0232	88.4	92.9	1	74.3-123			4.92	20

L807675-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/22/15 23:27 • (MS) 12/22/15 22:14 • (MSD) 12/22/15 22:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0242	0.0247	96.8	98.6	1	66.3-136			1.93	20
2,2-Dichloropropane	0.0250	ND	0.0291	0.0306	116	122	1	54.9-142			4.85	20
Di-isopropyl ether	0.0250	ND	0.0269	0.0288	108	115	1	59.9-140			6.86	20
Ethylbenzene	0.0250	ND	0.0237	0.0233	94.8	93.1	1	62.7-136			1.77	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0227	0.0229	90.9	91.8	1	61.1-144			0.980	20.1
Isopropylbenzene	0.0250	ND	0.0242	0.0248	96.9	99.3	1	67.4-136			2.47	20
p-Isopropyltoluene	0.0250	ND	0.0247	0.0259	98.9	104	1	62.8-143			4.57	20
2-Butanone (MEK)	0.125	0.000341	0.0871	0.0955	69.4	76.1	1	45.0-156			9.21	20.8
Methylene Chloride	0.0250	ND	0.0228	0.0235	91.2	94.1	1	61.5-125			3.07	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.125	0.134	100	107	1	60.7-150			6.89	20
Methyl tert-butyl ether	0.0250	ND	0.0248	0.0268	99.4	107	1	61.4-136			7.64	20
Naphthalene	0.0250	ND	0.0226	0.0232	90.3	92.8	1	61.8-143			2.74	20
n-Propylbenzene	0.0250	ND	0.0251	0.0252	100	101	1	63.2-139			0.490	20
Styrene	0.0250	ND	0.0241	0.0240	96.2	96.1	1	68.2-133			0.120	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0238	0.0246	95.2	98.2	1	64.9-145			3.12	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0219	0.0216	87.7	86.4	1	70.5-132			1.46	20
Tetrachloroethene	0.0250	ND	0.0206	0.0211	82.6	84.2	1	57.4-141			1.96	20
Toluene	0.0250	ND	0.0233	0.0234	93.1	93.5	1	67.8-124			0.470	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0296	0.0319	118	128	1	53.7-150			7.51	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0229	0.0234	91.5	93.6	1	65.7-143			2.22	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0228	0.0226	91.1	90.3	1	67.0-146			0.910	20
1,1,1-Trichloroethane	0.0250	ND	0.0270	0.0284	108	114	1	58.7-134			5.08	20
1,1,2-Trichloroethane	0.0250	ND	0.0226	0.0227	90.5	91.0	1	74.1-130			0.530	20
Trichloroethene	0.0250	ND	0.0227	0.0233	90.9	93.2	1	48.9-148			2.46	20
Trichlorofluoromethane	0.0250	ND	0.0310	0.0316	124	126	1	39.9-165			1.63	20
1,2,3-Trichloropropane	0.0250	ND	0.0234	0.0239	93.5	95.6	1	71.5-134			2.24	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0248	0.0250	99.0	100	1	62.7-133			0.980	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0238	0.0248	95.2	99.1	1	60.5-137			3.93	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0242	0.0245	97.0	98.0	1	67.9-134			1.04	20
Vinyl chloride	0.0250	ND	0.0230	0.0243	92.1	97.2	1	44.3-143			5.38	20
Xylenes, Total	0.0750	ND	0.0700	0.0700	93.4	93.3	1	65.6-133			0.0800	20
(S) Toluene-d8					*111*	*113*		*90.0-115*				
(S) Dibromofluoromethane					*107*	*111*		*79.0-121*				
(S) 4-Bromofluorobenzene					*103*	*104*		*80.1-120*				

Method Blank (MB)

(MB) 12/23/15 17:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Naphthalene	U		0.00100	0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/23/15 15:26 • (LCSD) 12/23/15 15:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	0.0253	0.0220	101	87.9	69.7-134			13.9	20

L808177-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/23/15 22:19 • (MS) 12/23/15 16:21 • (MSD) 12/23/15 16:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	0.000132	0.0190	0.0213	75.3	84.7	1	61.8-143			11.7	20

Method Blank (MB)

(MB) 12/22/15 09:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Naphthalene	U		0.00100	0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/22/15 08:51 • (LCSD) 12/22/15 11:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	0.0223	0.0212	89.2	84.7	69.7-134			5.14	20

L807980-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/22/15 16:12 • (MS) 12/22/15 11:51 • (MSD) 12/22/15 12:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	ND	0.0187	0.0190	74.8	76.1	1	61.8-143			1.73	20

Method Blank (MB)

(MB) 12/23/15 01:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100

Method Blank (MB)

(MB) 12/23/15 01:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*105*			*90.0-115*
(S) Dibromofluoromethane	*103*			*79.0-121*
(S) 4-Bromofluorobenzene	*104*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/22/15 23:59 • (LCSD) 12/23/15 00:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0926	0.144	74.1	115	28.7-175		J3	43.4	20.9
Acrolein	0.125	0.105	0.123	84.0	98.4	40.4-172			15.8	20
Acrylonitrile	0.125	0.114	0.132	91.0	106	58.2-145			15.1	20
Benzene	0.0250	0.0232	0.0233	92.8	93.2	73.0-122			0.490	20
Bromobenzene	0.0250	0.0238	0.0234	95.0	93.6	81.5-115			1.47	20
Bromodichloromethane	0.0250	0.0224	0.0223	89.7	89.3	75.5-121			0.360	20
Bromoform	0.0250	0.0230	0.0232	91.8	92.9	71.5-131			1.13	20
Bromomethane	0.0250	0.0291	0.0278	116	111	22.4-187			4.41	20
n-Butylbenzene	0.0250	0.0247	0.0246	98.9	98.5	75.9-134			0.420	20
sec-Butylbenzene	0.0250	0.0241	0.0233	96.2	93.2	80.6-126			3.18	20
tert-Butylbenzene	0.0250	0.0240	0.0230	96.1	92.2	79.3-127			4.15	20
Carbon tetrachloride	0.0250	0.0230	0.0232	91.9	92.9	70.9-129			1.16	20
Chlorobenzene	0.0250	0.0241	0.0235	96.5	94.2	79.7-122			2.44	20
Chlorodibromomethane	0.0250	0.0241	0.0240	96.6	96.2	78.2-124			0.430	20
Chloroethane	0.0250	0.0266	0.0261	107	105	41.2-153			1.92	20
2-Chloroethyl vinyl ether	0.125	0.128	0.138	103	110	23.4-162			6.93	23.5
Chloroform	0.0250	0.0230	0.0232	92.1	92.9	73.2-125			0.800	20
Chloromethane	0.0250	0.0212	0.0215	84.9	85.9	55.8-134			1.23	20
2-Chlorotoluene	0.0250	0.0235	0.0229	93.9	91.7	76.4-125			2.37	20
4-Chlorotoluene	0.0250	0.0234	0.0231	93.8	92.4	81.5-121			1.54	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0227	0.0254	90.8	102	64.8-131			11.3	20
1,2-Dibromoethane	0.0250	0.0246	0.0249	98.6	99.7	79.8-122			1.13	20
Dibromomethane	0.0250	0.0239	0.0243	95.6	97.2	79.5-118			1.58	20
1,2-Dichlorobenzene	0.0250	0.0236	0.0239	94.6	95.7	84.7-118			1.15	20
1,3-Dichlorobenzene	0.0250	0.0236	0.0231	94.3	92.2	77.6-127			2.26	20
1,4-Dichlorobenzene	0.0250	0.0232	0.0236	92.7	94.5	82.2-114			1.94	20
Dichlorodifluoromethane	0.0250	0.0199	0.0197	79.4	78.7	56.0-134			1.00	20
1,1-Dichloroethane	0.0250	0.0235	0.0238	94.1	95.3	71.7-127			1.24	20
1,2-Dichloroethane	0.0250	0.0238	0.0243	95.1	97.2	65.3-126			2.19	20
1,1-Dichloroethene	0.0250	0.0242	0.0246	96.8	98.3	59.9-137			1.55	20
cis-1,2-Dichloroethene	0.0250	0.0237	0.0240	94.9	95.9	77.3-122			1.08	20
trans-1,2-Dichloroethene	0.0250	0.0235	0.0238	94.1	95.4	72.6-125			1.33	20
1,2-Dichloropropane	0.0250	0.0238	0.0237	95.4	94.9	77.4-125			0.500	20
1,1-Dichloropropene	0.0250	0.0237	0.0237	94.8	94.8	72.5-127			0.0300	20
1,3-Dichloropropane	0.0250	0.0243	0.0243	97.3	97.1	80.6-115			0.230	20
cis-1,3-Dichloropropene	0.0250	0.0237	0.0236	94.7	94.5	77.7-124			0.240	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/22/15 23:59 • (LCSD) 12/23/15 00:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0237	0.0242	95.0	97.0	73.5-127			2.11	20
2,2-Dichloropropane	0.0250	0.0219	0.0221	87.5	88.4	61.3-134			0.970	20
Di-isopropyl ether	0.0250	0.0233	0.0234	93.3	93.4	65.1-135			0.0600	20
Ethylbenzene	0.0250	0.0239	0.0232	95.8	92.9	80.9-121			3.01	20
Hexachloro-1,3-butadiene	0.0250	0.0234	0.0233	93.4	93.1	73.7-133			0.400	20
Isopropylbenzene	0.0250	0.0238	0.0231	95.3	92.5	81.6-124			3.04	20
p-Isopropyltoluene	0.0250	0.0241	0.0233	96.4	93.1	77.6-129			3.53	20
2-Butanone (MEK)	0.125	0.0968	0.133	77.5	107	46.4-155		J3	31.8	20
Methylene Chloride	0.0250	0.0230	0.0234	91.9	93.6	69.5-120			1.84	20
4-Methyl-2-pentanone (MIBK)	0.125	0.115	0.125	92.1	99.8	63.3-138			8.06	20
Methyl tert-butyl ether	0.0250	0.0238	0.0248	95.3	99.4	70.1-125			4.16	20
Naphthalene	0.0250	0.0239	0.0257	95.5	103	69.7-134			7.25	20
n-Propylbenzene	0.0250	0.0235	0.0230	94.0	91.8	81.9-122			2.33	20
Styrene	0.0250	0.0245	0.0242	98.1	96.8	79.9-124			1.38	20
1,1,1,2-Tetrachloroethane	0.0250	0.0231	0.0226	92.3	90.5	78.5-125			1.90	20
1,1,2,2-Tetrachloroethane	0.0250	0.0227	0.0233	90.7	93.0	79.3-123			2.51	20
Tetrachloroethene	0.0250	0.0234	0.0230	93.8	92.1	73.5-130			1.76	20
Toluene	0.0250	0.0224	0.0222	89.7	88.8	77.9-116			1.02	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0245	0.0253	98.1	101	62.0-141			3.25	20
1,2,3-Trichlorobenzene	0.0250	0.0229	0.0242	91.6	96.9	75.7-134			5.68	20
1,2,4-Trichlorobenzene	0.0250	0.0231	0.0237	92.6	94.9	76.1-136			2.45	20
1,1,1-Trichloroethane	0.0250	0.0235	0.0236	94.0	94.4	71.1-129			0.400	20
1,1,2-Trichloroethane	0.0250	0.0245	0.0246	98.1	98.6	81.6-120			0.450	20
Trichloroethene	0.0250	0.0243	0.0243	97.3	97.0	79.5-121			0.310	20
Trichlorofluoromethane	0.0250	0.0244	0.0243	97.5	97.2	49.1-157			0.310	20
1,2,3-Trichloropropane	0.0250	0.0239	0.0246	95.6	98.3	74.9-124			2.73	20
1,2,3-Trimethylbenzene	0.0250	0.0233	0.0234	93.1	93.5	79.9-118			0.390	20
1,2,4-Trimethylbenzene	0.0250	0.0230	0.0222	92.0	88.8	79.0-122			3.51	20
1,3,5-Trimethylbenzene	0.0250	0.0229	0.0220	91.5	87.9	81.0-123			4.01	20
Vinyl chloride	0.0250	0.0233	0.0232	93.2	92.7	61.5-134			0.610	20
Xylenes, Total	0.0750	0.0710	0.0696	94.6	92.8	79.2-122			1.95	20
(S) Toluene-d8				*107*	*106*	*90.0-115*				
(S) Dibromofluoromethane				*103*	*102*	*79.0-121*				
(S) 4-Bromofluorobenzene				*103*	*99.9*	*80.1-120*				

L806319-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/23/15 02:59 • (MS) 12/23/15 01:39 • (MSD) 12/23/15 01:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	ND	0.0544	0.0532	43.5	42.6	1	25.0-156			2.21	21.5
Acrolein	0.125	ND	0.0954	0.0987	76.4	78.9	1	34.0-194			3.33	21.5
Acrylonitrile	0.125	ND	0.120	0.124	96.4	99.5	1	55.9-161			3.19	20
Benzene	0.0250	ND	0.0191	0.0201	76.5	80.2	1	58.6-133			4.74	20
Bromobenzene	0.0250	ND	0.0212	0.0218	84.7	87.2	1	70.6-125			2.95	20
Bromodichloromethane	0.0250	ND	0.0202	0.0215	80.9	85.8	1	69.2-127			5.87	20
Bromoform	0.0250	ND	0.0215	0.0225	85.9	90.0	1	66.3-140			4.70	20
Bromomethane	0.0250	ND	0.0182	0.0194	72.8	77.5	1	16.6-183			6.16	20.5
n-Butylbenzene	0.0250	ND	0.0224	0.0238	89.6	95.3	1	64.8-145			6.17	20
sec-Butylbenzene	0.0250	ND	0.0215	0.0228	86.0	91.4	1	66.8-139			6.03	20
tert-Butylbenzene	0.0250	ND	0.0214	0.0228	85.7	91.1	1	67.1-138			6.13	20
Carbon tetrachloride	0.0250	ND	0.0196	0.0203	78.5	81.2	1	60.6-139			3.44	20
Chlorobenzene	0.0250	ND	0.0206	0.0217	82.4	86.7	1	70.1-130			5.04	20
Chlorodibromomethane	0.0250	ND	0.0220	0.0228	87.8	91.1	1	71.6-132			3.61	20
Chloroethane	0.0250	ND	0.0193	0.0202	77.4	80.7	1	33.3-155			4.24	20
2-Chloroethyl vinyl ether	0.125	ND	0.000340	0.000368	0.272	0.295	1	5.00-149	J6	J6	7.88	40
Chloroform	0.0250	ND	0.0211	0.0221	84.3	88.6	1	66.1-133			4.98	20
Chloromethane	0.0250	ND	0.0138	0.0144	55.0	57.4	1	40.7-139			4.26	20
2-Chlorotoluene	0.0250	ND	0.0208	0.0217	83.3	86.6	1	66.9-134			3.92	20
4-Chlorotoluene	0.0250	ND	0.0207	0.0219	82.8	87.5	1	66.8-134			5.52	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0239	0.0253	95.6	101	1	63.9-142			5.51	20.2
1,2-Dibromoethane	0.0250	ND	0.0214	0.0226	85.6	90.2	1	73.8-131			5.20	20
Dibromomethane	0.0250	ND	0.0207	0.0219	82.9	87.5	1	72.8-127			5.48	20
1,2-Dichlorobenzene	0.0250	ND	0.0219	0.0231	87.7	92.2	1	77.4-127			5.03	20
1,3-Dichlorobenzene	0.0250	ND	0.0213	0.0223	85.1	89.1	1	67.9-136			4.62	20
1,4-Dichlorobenzene	0.0250	ND	0.0212	0.0222	84.7	88.8	1	74.4-123			4.81	20
Dichlorodifluoromethane	0.0250	ND	0.0148	0.0151	59.0	60.4	1	42.2-146			2.31	20
1,1-Dichloroethane	0.0250	ND	0.0205	0.0214	82.0	85.7	1	64.0-134			4.43	20
1,2-Dichloroethane	0.0250	ND	0.0206	0.0218	82.5	87.2	1	60.7-132			5.50	20
1,1-Dichloroethene	0.0250	ND	0.0189	0.0191	75.5	76.4	1	48.8-144			1.19	20
cis-1,2-Dichloroethene	0.0250	ND	0.0201	0.0211	80.4	84.3	1	60.6-136			4.79	20
trans-1,2-Dichloroethene	0.0250	ND	0.0175	0.0182	70.1	72.7	1	61.0-132			3.58	20
1,2-Dichloropropane	0.0250	ND	0.0209	0.0220	83.6	87.9	1	69.7-130			5.10	20
1,1-Dichloropropene	0.0250	ND	0.0184	0.0189	73.6	75.6	1	61.5-136			2.68	20
1,3-Dichloropropane	0.0250	ND	0.0214	0.0224	85.8	89.7	1	74.3-123			4.46	20
cis-1,3-Dichloropropene	0.0250	ND	0.0200	0.0213	80.2	85.3	1	71.1-129			6.16	20

L806319-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/23/15 02:59 • (MS) 12/23/15 01:39 • (MSD) 12/23/15 01:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0209	0.0224	83.5	89.4	1	66.3-136			6.81	20
2,2-Dichloropropane	0.0250	ND	0.0199	0.0206	79.6	82.3	1	54.9-142			3.39	20
Di-isopropyl ether	0.0250	ND	0.0210	0.0218	84.1	87.3	1	59.9-140			3.82	20
Ethylbenzene	0.0250	ND	0.0203	0.0211	81.2	84.5	1	62.7-136			3.98	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0222	0.0235	88.7	93.9	1	61.1-144			5.70	20.1
Isopropylbenzene	0.0250	ND	0.0209	0.0220	83.4	88.0	1	67.4-136			5.28	20
p-Isopropyltoluene	0.0250	ND	0.0212	0.0227	85.0	90.7	1	62.8-143			6.49	20
2-Butanone (MEK)	0.125	ND	0.0803	0.0835	64.2	66.8	1	45.0-156			3.90	20.8
Methylene Chloride	0.0250	0.000409	0.0187	0.0196	73.2	76.9	1	61.5-125			4.77	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.113	0.122	90.7	97.5	1	60.7-150			7.21	20
Methyl tert-butyl ether	0.0250	ND	0.0222	0.0237	88.7	94.7	1	61.4-136			6.53	20
Naphthalene	0.0250	ND	0.0237	0.0258	94.7	103	1	61.8-143			8.55	20
n-Propylbenzene	0.0250	ND	0.0207	0.0216	82.6	86.3	1	63.2-139			4.35	20
Styrene	0.0250	ND	0.0215	0.0223	86.0	89.0	1	68.2-133			3.44	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0207	0.0218	83.0	87.2	1	70.5-132			5.00	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0226	0.0238	90.5	95.2	1	64.9-145			5.12	20
Tetrachloroethene	0.0250	0.000135	0.0187	0.0187	74.4	74.4	1	57.4-141			0.000	20
Toluene	0.0250	ND	0.0185	0.0196	74.0	78.4	1	67.8-124			5.85	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0218	0.0218	87.2	87.2	1	53.7-150			0.0500	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0230	0.0246	91.8	98.2	1	65.7-143			6.75	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0222	0.0239	89.0	95.6	1	67.0-146			7.12	20
1,1,1-Trichloroethane	0.0250	ND	0.0204	0.0215	81.6	85.9	1	58.7-134			5.15	20
1,1,2-Trichloroethane	0.0250	ND	0.0223	0.0233	89.2	93.1	1	74.1-130			4.27	20
Trichloroethene	0.0250	ND	0.0195	0.0206	78.0	82.3	1	48.9-148			5.40	20
Trichlorofluoromethane	0.0250	ND	0.0189	0.0198	75.7	79.1	1	39.9-165			4.42	20
1,2,3-Trichloropropane	0.0250	ND	0.0235	0.0246	93.9	98.3	1	71.5-134			4.63	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0208	0.0223	83.4	89.1	1	62.7-133			6.68	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0202	0.0214	80.7	85.4	1	60.5-137			5.65	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0198	0.0211	79.3	84.4	1	67.9-134			6.21	20
Vinyl chloride	0.0250	ND	0.0157	0.0162	62.6	64.8	1	44.3-143			3.39	20
Xylenes, Total	0.0750	ND	0.0599	0.0628	79.9	83.7	1	65.6-133			4.58	20
(S) Toluene-d8					*105*	*106*		*90.0-115*				
(S) Dibromofluoromethane					*104*	*102*		*79.0-121*				
(S) 4-Bromofluorobenzene					*101*	*99.9*		*80.1-120*				

Method Blank (MB)

(MB) 12/15/15 15:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000140	0.0000500
Acenaphthene	U		0.0000100	0.0000500
Acenaphthylene	U		0.0000120	0.0000500
Benzo(a)anthracene	0.00000620		0.00000410	0.0000500
Benzo(a)pyrene	U		0.0000116	0.0000500
Benzo(b)fluoranthene	0.00000247		0.00000212	0.0000500
Benzo(g,h,i)perylene	U		0.00000227	0.0000500
Benzo(k)fluoranthene	U		0.0000136	0.0000500
Chrysene	U		0.0000108	0.0000500
Dibenz(a,h)anthracene	U		0.00000396	0.0000500
Fluoranthene	U		0.0000157	0.0000500
Fluorene	U		0.00000850	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500
Naphthalene	0.0000357		0.0000198	0.000250
Phenanthrene	U		0.00000820	0.0000500
Pyrene	U		0.0000117	0.0000500
1-Methylnaphthalene	U		0.00000821	0.000250
2-Methylnaphthalene	U		0.00000902	0.000250
2-Chloronaphthalene	U		0.00000647	0.000250
(S) Nitrobenzene-d5	*101*		*33.8-179*	
(S) 2-Fluorobiphenyl	*93.2*		*55.5-150*	
(S) p-Terphenyl-d14	*88.6*		*46.2-163*	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/15/15 13:50 • (LCSD) 12/15/15 14:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	0.00200	0.00199	99.8	99.5	68.9-153			0.250	20
Acenaphthene	0.00200	0.00190	0.00192	95.1	96.0	67.7-153			0.970	20
Acenaphthylene	0.00200	0.00198	0.00200	98.9	100	66.9-141			1.04	20
Benzo(a)anthracene	0.00200	0.00200	0.00199	99.8	99.4	63.1-147			0.320	20
Benzo(a)pyrene	0.00200	0.00187	0.00190	93.6	94.8	62.2-150			1.19	20
Benzo(b)fluoranthene	0.00200	0.00179	0.00179	89.7	89.7	58.4-148			0.0500	20
Benzo(g,h,i)perylene	0.00200	0.00182	0.00181	91.1	90.6	57.4-152			0.590	20
Benzo(k)fluoranthene	0.00200	0.00187	0.00193	93.6	96.5	60.5-154			3.05	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 12/15/15 13:50 • (LCSD) 12/15/15 14:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chrysene	0.00200	0.00197	0.00197	98.6	98.3	64.8-155			0.300	20
Dibenz(a,h)anthracene	0.00200	0.00191	0.00187	95.3	93.7	53.5-153			1.74	20
Fluoranthene	0.00200	0.00199	0.00197	99.3	98.7	68.6-153			0.620	20
Fluorene	0.00200	0.00189	0.00191	94.5	95.4	67.3-141			0.890	20
Indeno(1,2,3-cd)pyrene	0.00200	0.00184	0.00183	92.2	91.5	57.0-155			0.670	20
Naphthalene	0.00200	0.00199	0.00198	99.3	99.2	66.7-135			0.150	20
Phenanthrene	0.00200	0.00185	0.00181	92.7	90.6	64.3-143			2.28	20
Pyrene	0.00200	0.00191	0.00191	95.7	95.6	60.2-154			0.0900	20
1-Methylnaphthalene	0.00200	0.00194	0.00195	97.2	97.3	68.3-144			0.0800	20
2-Methylnaphthalene	0.00200	0.00202	0.00204	101	102	67.6-143			0.690	20
2-Chloronaphthalene	0.00200	0.00194	0.00195	96.9	97.3	69.7-140			0.470	20
(S) Nitrobenzene-d5				*110*	*106*	*33.8-179*				
(S) 2-Fluorobiphenyl				*95.6*	*97.7*	*55.5-150*				
(S) p-Terphenyl-d14				*87.9*	*88.9*	*46.2-163*				

L806224-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/15/15 18:49 • (MS) 12/15/15 19:11 • (MSD) 12/15/15 19:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	0.0136	0.0154	0.0158	87.7	110	1	68.9-153			2.85	20
Acenaphthene	0.00200	0.0584	0.0615	0.0615	153	154	1	67.7-141	V	V	0.0300	20
Acenaphthylene	0.00200	0.0381	0.0402	0.0403	105	106	1	66.9-141			0.0800	20
Benzo(a)anthracene	0.00200	0.000925	0.00246	0.00251	76.8	79.1	1	63.1-147			1.86	20
Benzo(a)pyrene	0.00200	0.000495	0.00184	0.00182	67.3	66.5	1	62.2-150			0.880	20
Benzo(b)fluoranthene	0.00200	0.000370	0.00156	0.00154	59.6	58.4	1	58.4-148			1.47	20
Benzo(g,h,i)perylene	0.00200	0.000171	0.00130	0.00128	56.3	55.7	1	57.4-152	J6	J6	0.910	20
Benzo(k)fluoranthene	0.00200	0.000107	0.00150	0.00150	69.8	69.7	1	60.5-154			0.160	20
Chrysene	0.00200	0.000769	0.00223	0.00226	73.0	74.7	1	64.8-155			1.50	20
Dibenz(a,h)anthracene	0.00200	0.0000424	0.00123	0.00121	59.6	58.5	1	53.5-153			1.77	20
Fluoranthene	0.00200	0.00741	0.00911	0.00945	85.1	102	1	68.6-153			3.64	20
Fluorene	0.00200	0.0398	0.0433	0.0431	174	166	1	67.3-141	V	V	0.370	20
Indeno(1,2,3-cd)pyrene	0.00200	0.000138	0.00128	0.00126	57.0	56.3	1	57.0-155		J6	1.16	20
Naphthalene	0.00200	0.0844	0.0787	0.0851	0.000	34.3	1	66.7-135	V	V	7.80	20
Phenanthrene	0.00200	0.0818	0.0842	0.0871	123	267	1	64.3-143		V	3.37	20
Pyrene	0.00200	0.0107	0.0125	0.0128	89.9	106	1	60.2-154			2.51	20

L806224-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 12/15/15 18:49 • (MS) 12/15/15 19:11 • (MSD) 12/15/15 19:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1-Methylnaphthalene	0.00200	0.138	0.132	0.139	0.000	58.6	1	68.3-144	V	V	4.97	20
2-Methylnaphthalene	0.00200	0.00423	0.00515	0.00537	45.7	57.0	1	67.6-143	J6	J6	4.29	20
2-Chloronaphthalene	0.00200	ND	0.00158	0.00149	79.0	74.4	1	69.7-140			6.02	20
(S) Nitrobenzene-d5					*97.1*	*85.9*		*33.8-179*				
(S) 2-Fluorobiphenyl					*76.3*	*73.6*		*55.5-150*				
(S) p-Terphenyl-d14					*64.5*	*64.9*		*46.2-163*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

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Alabama	40660
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North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

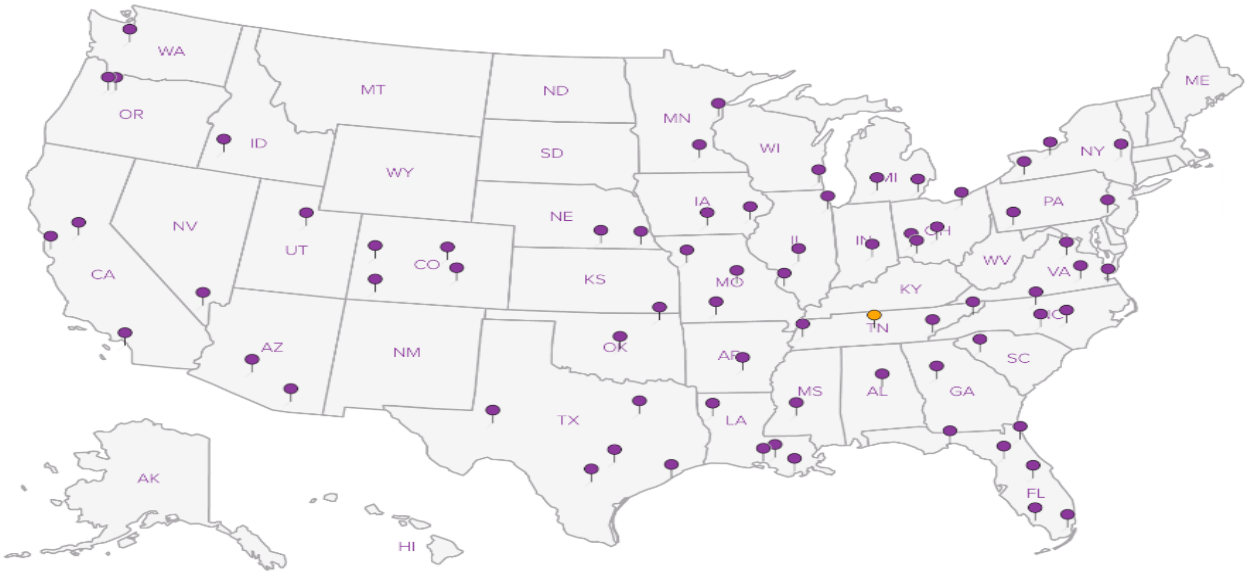
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 [5]	1461.02
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC 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. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:
USA Environmental, LP
17301 W. Colfax Ave., Suite 152
Golden, CO 80401

Billing Information:

Report to: ~~Andrew Stone~~ Craig Ligowski
Email To: cligowski@usaenviro.com ~~AStone@usaenviro.com~~

Project Description: 13th Street Plaza
City/State Collected: Boulder, CO

Phone: 303-954-4623
Fax:
Client Project # 5047-RC-C100
Lab Project #

Collected by (print): Andrew Stone
Site/Facility ID #
P.O. #

Collected by (signature): Andrew Stone
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L806224
E224
Acctnum: USAENVGOC
Template:
Prelogin:
TSR: Darren Reeder
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Ctrs	VOC 8260 (3) 40mL Amber - HCl	PAHSIM (8270) (3) 40mL Amber - No Pres	MS/MSD							Rem./Contaminant	Sample # (lab only)
COB-MW1-120915	Grab	GW	NA	12/9/15	1000	6	X	X									-01
COB-MW2-120915		GW			1115	6	X	X									-02
COB-MW3R-120915		GW			1450	6	X	X									-03
COB-MW4-120915		GW			1051	6	X	X									-04
COB-MW5-120915		GW			1135	6	X	X									-05
COB-MW6-120915		GW			1310	6	X	X	X								-06
COB-MW7-120915		GW			1420	6	X	X									-07
COB-MW8R-120915		GW			1535	6	X	X									-08
COB-MW10-120915		GW			1515	6	X	X									-09
COB-MW11-120915		GW			1225	6	X	X									-10

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ___

pH ___ Temp ___
Flow ___ Other ___

Remarks: 6503 7154 3524

Hold #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ___	Condition: (lab use only)
Andrew Stone	12/10/15	1300	FedEx Boulder, CO		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1 °C Bottles Received: 102	COC Seal Intact: ___Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Forest Shuff	Date: 12/11/15 Time: 0900	pH Checked: NCF:

Company Name/Address:
USA Environmental, LP
17301 W. Colfax Ave., Suite 152
Golden, CO 80401

Billing Information:

Report to: Craig Lugowski ~~Andrew Stone~~
Email To: clugowski ~~AStone~~@usaenviro.com

Project Description: 13th Street Plaza
City/State Collected: Boulder, CO

Phone: 303-954-4623
Fax:
Client Project #: 5047-RC-C100
Lab Project #:

Collected by (print): Andrew Stone
Site/Facility ID #:
P.O. #:

Collected by (signature): Andrew Stone
Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 2806224
Table #
Acctnum: USAENVGCO
Template:
Prelogin:
TSR: Darren Reeder
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	# of Cntrs	VOC 8260 (3) 40mL Amber - HCl	PAHSIM (8270) (3) 40mL Amber - No Pres									Rem./Contaminant	Sample # (lab only)
COB-MW12-120915	Grab	GW	NA	12/9/15	1550	6	X	X										-11
COB-MW13-120915	↓	GW	↓	↓	1205	6	X	X										-12
COB-MW14-120915		GW			1015	6	X	X										-13
COB-MW15-120915		GW			1355	6	X	X										-14
COB-MW16-120915		GW			1600	~~6~~ 5	X	X										-15
COB-FIELDDUP-120915		GW			0000	6	X	X										-16
~~———~~		~~GW~~				~~6~~												
Trip Blank				12/9/15	0900	1	X	X										-17

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____
Flow _____ Other _____

Remarks: 6903 7094 3324

Hold #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
Andrew Stone	12/10/15	1300	FedEx Boulder, CO		OK
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1 °C Bottles Received: 102	COC Seal Intact: ___Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/11/15 Time: 0900	pH Checked: NCF:

ANALYTICAL REPORT

March 15, 2016

USA Environment, LP

Sample Delivery Group:	L821297
Samples Received:	03/03/2016
Project Number:	
Description:	13th Street Plaza
Report To:	Mr. Craig Lugowski 17301 W. Colfax Avenue, Suite 152 Golden, CO 80401

Entire Report Reviewed By:

Jason Romer
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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COB-MW8R-030216 L821297-08 21

COB-MW10-030216 L821297-09 23

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7 Gl
8 Al
9 Sc

COB-MW1-030116 L821297-01 GW

Collected by: Andrew Stone | Collected date/time: 03/01/16 12:15 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 01:36	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854286	1	03/09/16 11:46	03/09/16 11:46	BMB

COB-MW2-030116 L821297-02 GW

Collected by: Andrew Stone | Collected date/time: 03/01/16 12:38 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 01:58	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG855130	1	03/10/16 10:02	03/10/16 10:02	JHH

COB-MW3R-030216 L821297-03 GW

Collected by: Andrew Stone | Collected date/time: 03/02/16 11:12 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 02:20	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	100	03/06/16 19:55	03/07/16 12:36	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854287	1	03/10/16 15:30	03/10/16 15:30	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG855451	50	03/11/16 02:43	03/11/16 02:43	JHH

COB-MW4-030116 L821297-04 GW

Collected by: Andrew Stone | Collected date/time: 03/01/16 15:15 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 02:42	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854290	1	03/09/16 16:35	03/09/16 16:35	BMB

COB-MW5-030116 L821297-05 GW

Collected by: Andrew Stone | Collected date/time: 03/01/16 14:50 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 03:03	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854290	1	03/09/16 16:55	03/09/16 16:55	BMB

COB-MW6-030216 L821297-06 GW

Collected by: Andrew Stone | Collected date/time: 03/02/16 10:25 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 03:25	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	20	03/06/16 19:55	03/07/16 13:22	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854290	1	03/09/16 17:15	03/09/16 17:15	BMB

COB-MW7-030216 L821297-07 GW

Collected by: Andrew Stone | Collected date/time: 03/02/16 09:50 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 03:47	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	20	03/06/16 19:55	03/07/16 18:46	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854290	1	03/09/16 12:30	03/09/16 12:30	JHH

COB-MW8R-030216 L821297-08 GW

Collected by: Andrew Stone | Collected date/time: 03/02/16 11:30 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 04:52	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854290	1	03/09/16 17:35	03/09/16 17:35	BMB

COB-MW10-030216 L821297-09 GW

Collected by: Andrew Stone | Collected date/time: 03/02/16 09:15 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 05:14	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	20	03/06/16 19:55	03/07/16 19:07	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854290	1	03/09/16 17:56	03/09/16 17:56	BMB

COB-MW11-030116 L821297-10 GW

Collected by: Andrew Stone | Collected date/time: 03/01/16 14:05 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 05:36	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854828	1	03/10/16 15:37	03/10/16 15:37	BMB

COB-MW12-030216 L821297-11 GW

Collected by: Andrew Stone | Collected date/time: 03/02/16 11:40 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 05:58	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854828	1	03/10/16 15:57	03/10/16 15:57	BMB

COB-MW13-030216 L821297-12 GW

Collected by: Andrew Stone | Collected date/time: 03/02/16 08:50 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 06:20	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854294	1	03/10/16 09:53	03/10/16 09:53	BMB

COB-MW14-030116 L821297-13 GW

Collected by: Andrew Stone | Collected date/time: 03/01/16 13:40 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 06:41	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854294	1	03/10/16 11:06	03/10/16 11:06	BMB

COB-MW15-030216 L821297-14 GW

Collected by: Andrew Stone | Collected date/time: 03/02/16 10:45 | Received date/time: 03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 07:03	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	20	03/06/16 19:55	03/07/16 19:29	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854294	1	03/10/16 11:24	03/10/16 11:24	BMB

COB-MW16-030216 L821297-15 GW

Collected by	Collected date/time	Received date/time
Andrew Stone	03/02/16 11:50	03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 07:25	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854294	1	03/10/16 11:41	03/10/16 11:41	BMB

COB-FIELDDUP-030216 L821297-16 GW

Collected by	Collected date/time	Received date/time
Andrew Stone	03/02/16 00:00	03/03/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	1	03/06/16 19:55	03/07/16 07:47	FMB
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG854241	20	03/06/16 19:55	03/07/16 19:51	FMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854294	1	03/10/16 11:59	03/10/16 11:59	BMB

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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 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.

Jason Romer
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/09/2016 11:46	WG854286
Acrolein	U		0.00887	0.0500	1	03/09/2016 11:46	WG854286
Acrylonitrile	U		0.00187	0.0100	1	03/09/2016 11:46	WG854286
Benzene	U		0.000331	0.00100	1	03/09/2016 11:46	WG854286
Bromobenzene	U		0.000352	0.00100	1	03/09/2016 11:46	WG854286
Bromodichloromethane	U		0.000380	0.00100	1	03/09/2016 11:46	WG854286
Bromoform	U		0.000469	0.00100	1	03/09/2016 11:46	WG854286
Bromomethane	U	J5	0.000866	0.00500	1	03/09/2016 11:46	WG854286
n-Butylbenzene	U		0.000361	0.00100	1	03/09/2016 11:46	WG854286
sec-Butylbenzene	U		0.000365	0.00100	1	03/09/2016 11:46	WG854286
tert-Butylbenzene	U		0.000399	0.00100	1	03/09/2016 11:46	WG854286
Carbon tetrachloride	U		0.000379	0.00100	1	03/09/2016 11:46	WG854286
Chlorobenzene	U		0.000348	0.00100	1	03/09/2016 11:46	WG854286
Chlorodibromomethane	U		0.000327	0.00100	1	03/09/2016 11:46	WG854286
Chloroethane	U		0.000453	0.00500	1	03/09/2016 11:46	WG854286
2-Chloroethyl vinyl ether	U	J3 J6	0.00301	0.0500	1	03/09/2016 11:46	WG854286
Chloroform	U		0.000324	0.00500	1	03/09/2016 11:46	WG854286
Chloromethane	U		0.000276	0.00250	1	03/09/2016 11:46	WG854286
2-Chlorotoluene	U		0.000375	0.00100	1	03/09/2016 11:46	WG854286
4-Chlorotoluene	U		0.000351	0.00100	1	03/09/2016 11:46	WG854286
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/09/2016 11:46	WG854286
1,2-Dibromoethane	U		0.000381	0.00100	1	03/09/2016 11:46	WG854286
Dibromomethane	U		0.000346	0.00100	1	03/09/2016 11:46	WG854286
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/09/2016 11:46	WG854286
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/09/2016 11:46	WG854286
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/09/2016 11:46	WG854286
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/09/2016 11:46	WG854286
1,1-Dichloroethane	U		0.000259	0.00100	1	03/09/2016 11:46	WG854286
1,2-Dichloroethane	U		0.000361	0.00100	1	03/09/2016 11:46	WG854286
1,1-Dichloroethene	U		0.000398	0.00100	1	03/09/2016 11:46	WG854286
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/09/2016 11:46	WG854286
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/09/2016 11:46	WG854286
1,2-Dichloropropane	U		0.000306	0.00100	1	03/09/2016 11:46	WG854286
1,1-Dichloropropene	U		0.000352	0.00100	1	03/09/2016 11:46	WG854286
1,3-Dichloropropane	U		0.000366	0.00100	1	03/09/2016 11:46	WG854286
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/09/2016 11:46	WG854286
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/09/2016 11:46	WG854286
2,2-Dichloropropane	U		0.000321	0.00100	1	03/09/2016 11:46	WG854286
Di-isopropyl ether	U		0.000320	0.00100	1	03/09/2016 11:46	WG854286
Ethylbenzene	U		0.000384	0.00100	1	03/09/2016 11:46	WG854286
Hexachloro-1,3-butadiene	U	J4	0.000256	0.00100	1	03/09/2016 11:46	WG854286
Isopropylbenzene	U		0.000326	0.00100	1	03/09/2016 11:46	WG854286
p-Isopropyltoluene	U		0.000350	0.00100	1	03/09/2016 11:46	WG854286
2-Butanone (MEK)	U		0.00393	0.0100	1	03/09/2016 11:46	WG854286
Methylene Chloride	U		0.00100	0.00500	1	03/09/2016 11:46	WG854286
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/09/2016 11:46	WG854286
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/09/2016 11:46	WG854286
Naphthalene	U		0.00100	0.00500	1	03/09/2016 11:46	WG854286
n-Propylbenzene	U		0.000349	0.00100	1	03/09/2016 11:46	WG854286
Styrene	U		0.000307	0.00100	1	03/09/2016 11:46	WG854286
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/09/2016 11:46	WG854286
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/09/2016 11:46	WG854286
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/09/2016 11:46	WG854286
Tetrachloroethene	U		0.000372	0.00100	1	03/09/2016 11:46	WG854286
Toluene	U		0.000780	0.00500	1	03/09/2016 11:46	WG854286
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/09/2016 11:46	WG854286

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/09/2016 11:46	WG854286
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/09/2016 11:46	WG854286
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/09/2016 11:46	WG854286
Trichloroethene	U		0.000398	0.00100	1	03/09/2016 11:46	WG854286
Trichlorofluoromethane	U		0.00120	0.00500	1	03/09/2016 11:46	WG854286
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/09/2016 11:46	WG854286
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	03/09/2016 11:46	WG854286
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	03/09/2016 11:46	WG854286
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	03/09/2016 11:46	WG854286
Vinyl chloride	U		0.000259	0.00100	1	03/09/2016 11:46	WG854286
Xylenes, Total	U		0.00106	0.00300	1	03/09/2016 11:46	WG854286
(S) Toluene-d8	*107*			*90.0-115*		*03/09/2016 11:46*	WG854286
(S) Dibromofluoromethane	*111*			*79.0-121*		*03/09/2016 11:46*	WG854286
(S) 4-Bromofluorobenzene	*102*			*80.1-120*		*03/09/2016 11:46*	WG854286

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000140	0.0000500	1	03/07/2016 01:36	WG854241
Acenaphthene	U		0.0000100	0.0000500	1	03/07/2016 01:36	WG854241
Acenaphthylene	U		0.0000120	0.0000500	1	03/07/2016 01:36	WG854241
Benzo(a)anthracene	0.00000632	J	0.00000410	0.0000500	1	03/07/2016 01:36	WG854241
Benzo(a)pyrene	U		0.0000116	0.0000500	1	03/07/2016 01:36	WG854241
Benzo(b)fluoranthene	U		0.00000212	0.0000500	1	03/07/2016 01:36	WG854241
Benzo(g,h,i)perylene	U		0.00000227	0.0000500	1	03/07/2016 01:36	WG854241
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	03/07/2016 01:36	WG854241
Chrysene	U		0.0000108	0.0000500	1	03/07/2016 01:36	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 01:36	WG854241
Fluoranthene	U		0.0000157	0.0000500	1	03/07/2016 01:36	WG854241
Fluorene	U		0.00000850	0.0000500	1	03/07/2016 01:36	WG854241
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	03/07/2016 01:36	WG854241
Naphthalene	0.000137	J	0.0000198	0.000250	1	03/07/2016 01:36	WG854241
Phenanthrene	U		0.00000820	0.0000500	1	03/07/2016 01:36	WG854241
Pyrene	U		0.0000117	0.0000500	1	03/07/2016 01:36	WG854241
1-Methylnaphthalene	0.0000291	J	0.00000821	0.000250	1	03/07/2016 01:36	WG854241
2-Methylnaphthalene	0.0000410	J	0.00000902	0.000250	1	03/07/2016 01:36	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 01:36	WG854241
(S) Nitrobenzene-d5	*83.0*			*33.8-179*		*03/07/2016 01:36*	WG854241
(S) 2-Fluorobiphenyl	*90.2*			*55.5-150*		*03/07/2016 01:36*	WG854241
(S) p-Terphenyl-d14	*74.0*			*46.2-163*		*03/07/2016 01:36*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/10/2016 10:02	WG855130
Acrolein	U		0.00887	0.0500	1	03/10/2016 10:02	WG855130
Acrylonitrile	U		0.00187	0.0100	1	03/10/2016 10:02	WG855130
Benzene	U		0.000331	0.00100	1	03/10/2016 10:02	WG855130
Bromobenzene	U		0.000352	0.00100	1	03/10/2016 10:02	WG855130
Bromodichloromethane	U		0.000380	0.00100	1	03/10/2016 10:02	WG855130
Bromoform	U		0.000469	0.00100	1	03/10/2016 10:02	WG855130
Bromomethane	U		0.000866	0.00500	1	03/10/2016 10:02	WG855130
n-Butylbenzene	U		0.000361	0.00100	1	03/10/2016 10:02	WG855130
sec-Butylbenzene	U		0.000365	0.00100	1	03/10/2016 10:02	WG855130
tert-Butylbenzene	U		0.000399	0.00100	1	03/10/2016 10:02	WG855130
Carbon tetrachloride	U		0.000379	0.00100	1	03/10/2016 10:02	WG855130
Chlorobenzene	U		0.000348	0.00100	1	03/10/2016 10:02	WG855130
Chlorodibromomethane	U		0.000327	0.00100	1	03/10/2016 10:02	WG855130
Chloroethane	U		0.000453	0.00500	1	03/10/2016 10:02	WG855130
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	03/10/2016 10:02	WG855130
Chloroform	U		0.000324	0.00500	1	03/10/2016 10:02	WG855130
Chloromethane	U		0.000276	0.00250	1	03/10/2016 10:02	WG855130
2-Chlorotoluene	U		0.000375	0.00100	1	03/10/2016 10:02	WG855130
4-Chlorotoluene	U		0.000351	0.00100	1	03/10/2016 10:02	WG855130
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/10/2016 10:02	WG855130
1,2-Dibromoethane	U		0.000381	0.00100	1	03/10/2016 10:02	WG855130
Dibromomethane	U		0.000346	0.00100	1	03/10/2016 10:02	WG855130
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/10/2016 10:02	WG855130
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/10/2016 10:02	WG855130
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/10/2016 10:02	WG855130
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/10/2016 10:02	WG855130
1,1-Dichloroethane	U		0.000259	0.00100	1	03/10/2016 10:02	WG855130
1,2-Dichloroethane	U		0.000361	0.00100	1	03/10/2016 10:02	WG855130
1,1-Dichloroethene	U		0.000398	0.00100	1	03/10/2016 10:02	WG855130
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/10/2016 10:02	WG855130
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/10/2016 10:02	WG855130
1,2-Dichloropropane	U		0.000306	0.00100	1	03/10/2016 10:02	WG855130
1,1-Dichloropropene	U		0.000352	0.00100	1	03/10/2016 10:02	WG855130
1,3-Dichloropropane	U		0.000366	0.00100	1	03/10/2016 10:02	WG855130
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/10/2016 10:02	WG855130
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/10/2016 10:02	WG855130
2,2-Dichloropropane	U		0.000321	0.00100	1	03/10/2016 10:02	WG855130
Di-isopropyl ether	U		0.000320	0.00100	1	03/10/2016 10:02	WG855130
Ethylbenzene	U		0.000384	0.00100	1	03/10/2016 10:02	WG855130
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/10/2016 10:02	WG855130
Isopropylbenzene	U		0.000326	0.00100	1	03/10/2016 10:02	WG855130
p-Isopropyltoluene	U		0.000350	0.00100	1	03/10/2016 10:02	WG855130
2-Butanone (MEK)	U		0.00393	0.0100	1	03/10/2016 10:02	WG855130
Methylene Chloride	U		0.00100	0.00500	1	03/10/2016 10:02	WG855130
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/10/2016 10:02	WG855130
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/10/2016 10:02	WG855130
Naphthalene	U		0.00100	0.00500	1	03/10/2016 10:02	WG855130
n-Propylbenzene	U		0.000349	0.00100	1	03/10/2016 10:02	WG855130
Styrene	U		0.000307	0.00100	1	03/10/2016 10:02	WG855130
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/10/2016 10:02	WG855130
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/10/2016 10:02	WG855130
1,1,2-Trichlorotrifluoroethane	U	J4	0.000303	0.00100	1	03/10/2016 10:02	WG855130
Tetrachloroethene	U		0.000372	0.00100	1	03/10/2016 10:02	WG855130
Toluene	U		0.000780	0.00500	1	03/10/2016 10:02	WG855130
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/10/2016 10:02	WG855130

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/10/2016 10:02	WG855130
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/10/2016 10:02	WG855130
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/10/2016 10:02	WG855130
Trichloroethene	U		0.000398	0.00100	1	03/10/2016 10:02	WG855130
Trichlorofluoromethane	U		0.00120	0.00500	1	03/10/2016 10:02	WG855130
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/10/2016 10:02	WG855130
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	03/10/2016 10:02	WG855130
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	03/10/2016 10:02	WG855130
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	03/10/2016 10:02	WG855130
Vinyl chloride	U		0.000259	0.00100	1	03/10/2016 10:02	WG855130
Xylenes, Total	U		0.00106	0.00300	1	03/10/2016 10:02	WG855130
(S) Toluene-d8	*105*			*90.0-115*		*03/10/2016 10:02*	WG855130
(S) Dibromofluoromethane	*106*			*79.0-121*		*03/10/2016 10:02*	WG855130
(S) 4-Bromofluorobenzene	*103*			*80.1-120*		*03/10/2016 10:02*	WG855130

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0000172	J	0.0000140	0.0000500	1	03/07/2016 01:58	WG854241
Acenaphthene	0.0000101	J	0.0000100	0.0000500	1	03/07/2016 01:58	WG854241
Acenaphthylene	U		0.0000120	0.0000500	1	03/07/2016 01:58	WG854241
Benzo(a)anthracene	0.0000479	J	0.00000410	0.0000500	1	03/07/2016 01:58	WG854241
Benzo(a)pyrene	0.0000631		0.0000116	0.0000500	1	03/07/2016 01:58	WG854241
Benzo(b)fluoranthene	0.0000505		0.00000212	0.0000500	1	03/07/2016 01:58	WG854241
Benzo(g,h,i)perylene	0.0000378	J	0.00000227	0.0000500	1	03/07/2016 01:58	WG854241
Benzo(k)fluoranthene	0.0000179	J	0.0000136	0.0000500	1	03/07/2016 01:58	WG854241
Chrysene	0.0000346	J	0.0000108	0.0000500	1	03/07/2016 01:58	WG854241
Dibenz(a,h)anthracene	0.00000879	J	0.00000396	0.0000500	1	03/07/2016 01:58	WG854241
Fluoranthene	0.0000475	J	0.0000157	0.0000500	1	03/07/2016 01:58	WG854241
Fluorene	U		0.00000850	0.0000500	1	03/07/2016 01:58	WG854241
Indeno(1,2,3-cd)pyrene	0.0000281	J	0.0000148	0.0000500	1	03/07/2016 01:58	WG854241
Naphthalene	0.000153	J	0.0000198	0.000250	1	03/07/2016 01:58	WG854241
Phenanthrene	0.0000131	J	0.00000820	0.0000500	1	03/07/2016 01:58	WG854241
Pyrene	0.000416		0.0000117	0.0000500	1	03/07/2016 01:58	WG854241
1-Methylnaphthalene	0.0000477	J	0.00000821	0.000250	1	03/07/2016 01:58	WG854241
2-Methylnaphthalene	0.0000391	J	0.00000902	0.000250	1	03/07/2016 01:58	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 01:58	WG854241
(S) Nitrobenzene-d5	*79.7*			*33.8-179*		*03/07/2016 01:58*	WG854241
(S) 2-Fluorobiphenyl	*87.8*			*55.5-150*		*03/07/2016 01:58*	WG854241
(S) p-Terphenyl-d14	*72.7*			*46.2-163*		*03/07/2016 01:58*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	03/10/2016 15:30	WG854287
Acrolein	U		0.00887	0.0500	1	03/10/2016 15:30	WG854287
Acrylonitrile	U		0.00187	0.0100	1	03/10/2016 15:30	WG854287
Benzene	0.311		0.0166	0.0500	50	03/11/2016 02:43	WG855451
Bromobenzene	U		0.000352	0.00100	1	03/10/2016 15:30	WG854287
Bromodichloromethane	U		0.000380	0.00100	1	03/10/2016 15:30	WG854287
Bromoform	U		0.000469	0.00100	1	03/10/2016 15:30	WG854287
Bromomethane	U		0.000866	0.00500	1	03/10/2016 15:30	WG854287
n-Butylbenzene	0.00156		0.000361	0.00100	1	03/10/2016 15:30	WG854287
sec-Butylbenzene	0.000628	J	0.000365	0.00100	1	03/10/2016 15:30	WG854287
tert-Butylbenzene	U		0.000399	0.00100	1	03/10/2016 15:30	WG854287
Carbon tetrachloride	U		0.000379	0.00100	1	03/10/2016 15:30	WG854287
Chlorobenzene	U		0.000348	0.00100	1	03/10/2016 15:30	WG854287
Chlorodibromomethane	U		0.000327	0.00100	1	03/10/2016 15:30	WG854287
Chloroethane	U		0.000453	0.00500	1	03/10/2016 15:30	WG854287
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	03/10/2016 15:30	WG854287
Chloroform	U		0.000324	0.00500	1	03/10/2016 15:30	WG854287
Chloromethane	U		0.000276	0.00250	1	03/10/2016 15:30	WG854287
2-Chlorotoluene	U		0.000375	0.00100	1	03/10/2016 15:30	WG854287
4-Chlorotoluene	U		0.000351	0.00100	1	03/10/2016 15:30	WG854287
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/10/2016 15:30	WG854287
1,2-Dibromoethane	U		0.000381	0.00100	1	03/10/2016 15:30	WG854287
Dibromomethane	U		0.000346	0.00100	1	03/10/2016 15:30	WG854287
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/10/2016 15:30	WG854287
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/10/2016 15:30	WG854287
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/10/2016 15:30	WG854287
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/10/2016 15:30	WG854287
1,1-Dichloroethane	U		0.000259	0.00100	1	03/10/2016 15:30	WG854287
1,2-Dichloroethane	U		0.000361	0.00100	1	03/10/2016 15:30	WG854287
1,1-Dichloroethene	U		0.000398	0.00100	1	03/10/2016 15:30	WG854287
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/10/2016 15:30	WG854287
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/10/2016 15:30	WG854287
1,2-Dichloropropane	U		0.000306	0.00100	1	03/10/2016 15:30	WG854287
1,1-Dichloropropene	U		0.000352	0.00100	1	03/10/2016 15:30	WG854287
1,3-Dichloropropane	U		0.000366	0.00100	1	03/10/2016 15:30	WG854287
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/10/2016 15:30	WG854287
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/10/2016 15:30	WG854287
2,2-Dichloropropane	U		0.000321	0.00100	1	03/10/2016 15:30	WG854287
Di-isopropyl ether	U		0.000320	0.00100	1	03/10/2016 15:30	WG854287
Ethylbenzene	0.442		0.0192	0.0500	50	03/11/2016 02:43	WG855451
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/10/2016 15:30	WG854287
Isopropylbenzene	0.0374		0.000326	0.00100	1	03/10/2016 15:30	WG854287
p-Isopropyltoluene	0.00281		0.000350	0.00100	1	03/10/2016 15:30	WG854287
2-Butanone (MEK)	U		0.00393	0.0100	1	03/10/2016 15:30	WG854287
Methylene Chloride	U		0.00100	0.00500	1	03/10/2016 15:30	WG854287
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/10/2016 15:30	WG854287
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/10/2016 15:30	WG854287
Naphthalene	1.65		0.0500	0.250	50	03/11/2016 02:43	WG855451
n-Propylbenzene	0.0111		0.000349	0.00100	1	03/10/2016 15:30	WG854287
Styrene	U		0.000307	0.00100	1	03/10/2016 15:30	WG854287
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/10/2016 15:30	WG854287
1,1,2,2-Tetrachloroethane	U	J4	0.000130	0.00100	1	03/10/2016 15:30	WG854287
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/10/2016 15:30	WG854287
Tetrachloroethene	U		0.000372	0.00100	1	03/10/2016 15:30	WG854287
Toluene	0.0190		0.000780	0.00500	1	03/10/2016 15:30	WG854287
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/10/2016 15:30	WG854287

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/10/2016 15:30	WG854287
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/10/2016 15:30	WG854287
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/10/2016 15:30	WG854287
Trichloroethene	U		0.000398	0.00100	1	03/10/2016 15:30	WG854287
Trichlorofluoromethane	U		0.00120	0.00500	1	03/10/2016 15:30	WG854287
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/10/2016 15:30	WG854287
1,2,4-Trimethylbenzene	0.134		0.000373	0.00100	1	03/10/2016 15:30	WG854287
1,2,3-Trimethylbenzene	0.0513		0.000321	0.00100	1	03/10/2016 15:30	WG854287
1,3,5-Trimethylbenzene	0.0420		0.000387	0.00100	1	03/10/2016 15:30	WG854287
Vinyl chloride	U		0.000259	0.00100	1	03/10/2016 15:30	WG854287
Xylenes, Total	0.203		0.0530	0.150	50	03/11/2016 02:43	WG855451
(S) Toluene-d8	*106*			*90.0-115*		*03/10/2016 15:30*	WG854287
(S) Dibromofluoromethane	*90.5*			*79.0-121*		*03/10/2016 15:30*	WG854287
(S) 4-Bromofluorobenzene	*103*			*80.1-120*		*03/10/2016 15:30*	WG854287

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0160		0.0000140	0.0000500	1	03/07/2016 02:20	WG854241
Acenaphthene	0.391		0.00100	0.00500	100	03/07/2016 12:36	WG854241
Acenaphthylene	0.0632		0.0000120	0.0000500	1	03/07/2016 02:20	WG854241
Benzo(a)anthracene	0.00242		0.00000410	0.0000500	1	03/07/2016 02:20	WG854241
Benzo(a)pyrene	0.00147		0.0000116	0.0000500	1	03/07/2016 02:20	WG854241
Benzo(b)fluoranthene	0.00121		0.00000212	0.0000500	1	03/07/2016 02:20	WG854241
Benzo(g,h,i)perylene	0.000438		0.00000227	0.0000500	1	03/07/2016 02:20	WG854241
Benzo(k)fluoranthene	0.000298		0.0000136	0.0000500	1	03/07/2016 02:20	WG854241
Chrysene	0.00190		0.0000108	0.0000500	1	03/07/2016 02:20	WG854241
Dibenz(a,h)anthracene	0.000197		0.00000396	0.0000500	1	03/07/2016 02:20	WG854241
Fluoranthene	0.00637		0.0000157	0.0000500	1	03/07/2016 02:20	WG854241
Fluorene	0.0653		0.00000850	0.0000500	1	03/07/2016 02:20	WG854241
Indeno(1,2,3-cd)pyrene	0.000412		0.0000148	0.0000500	1	03/07/2016 02:20	WG854241
Naphthalene	2.79		0.00198	0.0250	100	03/07/2016 12:36	WG854241
Phenanthrene	0.0812		0.00000820	0.0000500	1	03/07/2016 02:20	WG854241
Pyrene	0.00942		0.0000117	0.0000500	1	03/07/2016 02:20	WG854241
1-Methylnaphthalene	1.29		0.000821	0.0250	100	03/07/2016 12:36	WG854241
2-Methylnaphthalene	0.524		0.000902	0.0250	100	03/07/2016 12:36	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 02:20	WG854241
(S) Nitrobenzene-d5	*164*	J7		*33.8-179*		*03/07/2016 12:36*	WG854241
(S) 2-Fluorobiphenyl	*77.8*			*55.5-150*		*03/07/2016 02:20*	WG854241
(S) p-Terphenyl-d14	*76.7*			*46.2-163*		*03/07/2016 02:20*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/09/2016 16:35	WG854290
Acrolein	U		0.00887	0.0500	1	03/09/2016 16:35	WG854290
Acrylonitrile	U		0.00187	0.0100	1	03/09/2016 16:35	WG854290
Benzene	U		0.000331	0.00100	1	03/09/2016 16:35	WG854290
Bromobenzene	U		0.000352	0.00100	1	03/09/2016 16:35	WG854290
Bromodichloromethane	U		0.000380	0.00100	1	03/09/2016 16:35	WG854290
Bromoform	U		0.000469	0.00100	1	03/09/2016 16:35	WG854290
Bromomethane	U		0.000866	0.00500	1	03/09/2016 16:35	WG854290
n-Butylbenzene	U		0.000361	0.00100	1	03/09/2016 16:35	WG854290
sec-Butylbenzene	U		0.000365	0.00100	1	03/09/2016 16:35	WG854290
tert-Butylbenzene	U		0.000399	0.00100	1	03/09/2016 16:35	WG854290
Carbon tetrachloride	U		0.000379	0.00100	1	03/09/2016 16:35	WG854290
Chlorobenzene	U		0.000348	0.00100	1	03/09/2016 16:35	WG854290
Chlorodibromomethane	U		0.000327	0.00100	1	03/09/2016 16:35	WG854290
Chloroethane	U		0.000453	0.00500	1	03/09/2016 16:35	WG854290
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	03/09/2016 16:35	WG854290
Chloroform	U		0.000324	0.00500	1	03/09/2016 16:35	WG854290
Chloromethane	U		0.000276	0.00250	1	03/09/2016 16:35	WG854290
2-Chlorotoluene	U		0.000375	0.00100	1	03/09/2016 16:35	WG854290
4-Chlorotoluene	U		0.000351	0.00100	1	03/09/2016 16:35	WG854290
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/09/2016 16:35	WG854290
1,2-Dibromoethane	U		0.000381	0.00100	1	03/09/2016 16:35	WG854290
Dibromomethane	U		0.000346	0.00100	1	03/09/2016 16:35	WG854290
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/09/2016 16:35	WG854290
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/09/2016 16:35	WG854290
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/09/2016 16:35	WG854290
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/09/2016 16:35	WG854290
1,1-Dichloroethane	U		0.000259	0.00100	1	03/09/2016 16:35	WG854290
1,2-Dichloroethane	U		0.000361	0.00100	1	03/09/2016 16:35	WG854290
1,1-Dichloroethene	U		0.000398	0.00100	1	03/09/2016 16:35	WG854290
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/09/2016 16:35	WG854290
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/09/2016 16:35	WG854290
1,2-Dichloropropane	U		0.000306	0.00100	1	03/09/2016 16:35	WG854290
1,1-Dichloropropene	U		0.000352	0.00100	1	03/09/2016 16:35	WG854290
1,3-Dichloropropane	U		0.000366	0.00100	1	03/09/2016 16:35	WG854290
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/09/2016 16:35	WG854290
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/09/2016 16:35	WG854290
2,2-Dichloropropane	U		0.000321	0.00100	1	03/09/2016 16:35	WG854290
Di-isopropyl ether	U		0.000320	0.00100	1	03/09/2016 16:35	WG854290
Ethylbenzene	U		0.000384	0.00100	1	03/09/2016 16:35	WG854290
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/09/2016 16:35	WG854290
Isopropylbenzene	U		0.000326	0.00100	1	03/09/2016 16:35	WG854290
p-Isopropyltoluene	U		0.000350	0.00100	1	03/09/2016 16:35	WG854290
2-Butanone (MEK)	U		0.00393	0.0100	1	03/09/2016 16:35	WG854290
Methylene Chloride	U		0.00100	0.00500	1	03/09/2016 16:35	WG854290
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/09/2016 16:35	WG854290
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/09/2016 16:35	WG854290
Naphthalene	U		0.00100	0.00500	1	03/09/2016 16:35	WG854290
n-Propylbenzene	U		0.000349	0.00100	1	03/09/2016 16:35	WG854290
Styrene	U		0.000307	0.00100	1	03/09/2016 16:35	WG854290
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/09/2016 16:35	WG854290
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/09/2016 16:35	WG854290
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/09/2016 16:35	WG854290
Tetrachloroethene	U		0.000372	0.00100	1	03/09/2016 16:35	WG854290
Toluene	U		0.000780	0.00500	1	03/09/2016 16:35	WG854290
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/09/2016 16:35	WG854290

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/09/2016 16:35	WG854290
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/09/2016 16:35	WG854290
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/09/2016 16:35	WG854290
Trichloroethene	U		0.000398	0.00100	1	03/09/2016 16:35	WG854290
Trichlorofluoromethane	U		0.00120	0.00500	1	03/09/2016 16:35	WG854290
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/09/2016 16:35	WG854290
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	03/09/2016 16:35	WG854290
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	03/09/2016 16:35	WG854290
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	03/09/2016 16:35	WG854290
Vinyl chloride	U		0.000259	0.00100	1	03/09/2016 16:35	WG854290
Xylenes, Total	U		0.00106	0.00300	1	03/09/2016 16:35	WG854290
(S) Toluene-d8	*98.0*			*90.0-115*		*03/09/2016 16:35*	WG854290
(S) Dibromofluoromethane	*99.5*			*79.0-121*		*03/09/2016 16:35*	WG854290
(S) 4-Bromofluorobenzene	*98.6*			*80.1-120*		*03/09/2016 16:35*	WG854290

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0000162	J	0.0000140	0.0000500	1	03/07/2016 02:42	WG854241
Acenaphthene	0.0000976		0.0000100	0.0000500	1	03/07/2016 02:42	WG854241
Acenaphthylene	0.0000282	J	0.0000120	0.0000500	1	03/07/2016 02:42	WG854241
Benzo(a)anthracene	U		0.00000410	0.0000500	1	03/07/2016 02:42	WG854241
Benzo(a)pyrene	U		0.0000116	0.0000500	1	03/07/2016 02:42	WG854241
Benzo(b)fluoranthene	0.00000624	J	0.00000212	0.0000500	1	03/07/2016 02:42	WG854241
Benzo(g,h,i)perylene	0.0000159	J	0.00000227	0.0000500	1	03/07/2016 02:42	WG854241
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	03/07/2016 02:42	WG854241
Chrysene	U		0.0000108	0.0000500	1	03/07/2016 02:42	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 02:42	WG854241
Fluoranthene	U		0.0000157	0.0000500	1	03/07/2016 02:42	WG854241
Fluorene	0.0000193	J	0.00000850	0.0000500	1	03/07/2016 02:42	WG854241
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	03/07/2016 02:42	WG854241
Naphthalene	0.000654		0.0000198	0.000250	1	03/07/2016 02:42	WG854241
Phenanthrene	0.0000397	J	0.00000820	0.0000500	1	03/07/2016 02:42	WG854241
Pyrene	0.0000209	J	0.0000117	0.0000500	1	03/07/2016 02:42	WG854241
1-Methylnaphthalene	0.000321		0.00000821	0.000250	1	03/07/2016 02:42	WG854241
2-Methylnaphthalene	0.000133	J	0.00000902	0.000250	1	03/07/2016 02:42	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 02:42	WG854241
(S) Nitrobenzene-d5	*83.9*			*33.8-179*		*03/07/2016 02:42*	WG854241
(S) 2-Fluorobiphenyl	*92.1*			*55.5-150*		*03/07/2016 02:42*	WG854241
(S) p-Terphenyl-d14	*74.9*			*46.2-163*		*03/07/2016 02:42*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/09/2016 16:55	WG854290
Acrolein	U		0.00887	0.0500	1	03/09/2016 16:55	WG854290
Acrylonitrile	U		0.00187	0.0100	1	03/09/2016 16:55	WG854290
Benzene	U		0.000331	0.00100	1	03/09/2016 16:55	WG854290
Bromobenzene	U		0.000352	0.00100	1	03/09/2016 16:55	WG854290
Bromodichloromethane	U		0.000380	0.00100	1	03/09/2016 16:55	WG854290
Bromoform	U		0.000469	0.00100	1	03/09/2016 16:55	WG854290
Bromomethane	U		0.000866	0.00500	1	03/09/2016 16:55	WG854290
n-Butylbenzene	U		0.000361	0.00100	1	03/09/2016 16:55	WG854290
sec-Butylbenzene	U		0.000365	0.00100	1	03/09/2016 16:55	WG854290
tert-Butylbenzene	U		0.000399	0.00100	1	03/09/2016 16:55	WG854290
Carbon tetrachloride	U		0.000379	0.00100	1	03/09/2016 16:55	WG854290
Chlorobenzene	U		0.000348	0.00100	1	03/09/2016 16:55	WG854290
Chlorodibromomethane	U		0.000327	0.00100	1	03/09/2016 16:55	WG854290
Chloroethane	U		0.000453	0.00500	1	03/09/2016 16:55	WG854290
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	03/09/2016 16:55	WG854290
Chloroform	U		0.000324	0.00500	1	03/09/2016 16:55	WG854290
Chloromethane	U		0.000276	0.00250	1	03/09/2016 16:55	WG854290
2-Chlorotoluene	U		0.000375	0.00100	1	03/09/2016 16:55	WG854290
4-Chlorotoluene	U		0.000351	0.00100	1	03/09/2016 16:55	WG854290
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/09/2016 16:55	WG854290
1,2-Dibromoethane	U		0.000381	0.00100	1	03/09/2016 16:55	WG854290
Dibromomethane	U		0.000346	0.00100	1	03/09/2016 16:55	WG854290
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/09/2016 16:55	WG854290
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/09/2016 16:55	WG854290
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/09/2016 16:55	WG854290
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/09/2016 16:55	WG854290
1,1-Dichloroethane	U		0.000259	0.00100	1	03/09/2016 16:55	WG854290
1,2-Dichloroethane	U		0.000361	0.00100	1	03/09/2016 16:55	WG854290
1,1-Dichloroethene	U		0.000398	0.00100	1	03/09/2016 16:55	WG854290
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/09/2016 16:55	WG854290
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/09/2016 16:55	WG854290
1,2-Dichloropropane	U		0.000306	0.00100	1	03/09/2016 16:55	WG854290
1,1-Dichloropropene	U		0.000352	0.00100	1	03/09/2016 16:55	WG854290
1,3-Dichloropropane	U		0.000366	0.00100	1	03/09/2016 16:55	WG854290
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/09/2016 16:55	WG854290
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/09/2016 16:55	WG854290
2,2-Dichloropropane	U		0.000321	0.00100	1	03/09/2016 16:55	WG854290
Di-isopropyl ether	U		0.000320	0.00100	1	03/09/2016 16:55	WG854290
Ethylbenzene	0.000507	J	0.000384	0.00100	1	03/09/2016 16:55	WG854290
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/09/2016 16:55	WG854290
Isopropylbenzene	0.000463	J	0.000326	0.00100	1	03/09/2016 16:55	WG854290
p-Isopropyltoluene	U		0.000350	0.00100	1	03/09/2016 16:55	WG854290
2-Butanone (MEK)	U		0.00393	0.0100	1	03/09/2016 16:55	WG854290
Methylene Chloride	U		0.00100	0.00500	1	03/09/2016 16:55	WG854290
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/09/2016 16:55	WG854290
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/09/2016 16:55	WG854290
Naphthalene	0.00560		0.00100	0.00500	1	03/09/2016 16:55	WG854290
n-Propylbenzene	U		0.000349	0.00100	1	03/09/2016 16:55	WG854290
Styrene	U		0.000307	0.00100	1	03/09/2016 16:55	WG854290
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/09/2016 16:55	WG854290
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/09/2016 16:55	WG854290
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/09/2016 16:55	WG854290
Tetrachloroethene	U		0.000372	0.00100	1	03/09/2016 16:55	WG854290
Toluene	U		0.000780	0.00500	1	03/09/2016 16:55	WG854290
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/09/2016 16:55	WG854290

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/09/2016 16:55	WG854290
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/09/2016 16:55	WG854290
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/09/2016 16:55	WG854290
Trichloroethene	U		0.000398	0.00100	1	03/09/2016 16:55	WG854290
Trichlorofluoromethane	U		0.00120	0.00500	1	03/09/2016 16:55	WG854290
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/09/2016 16:55	WG854290
1,2,4-Trimethylbenzene	0.00189		0.000373	0.00100	1	03/09/2016 16:55	WG854290
1,2,3-Trimethylbenzene	0.000877	J	0.000321	0.00100	1	03/09/2016 16:55	WG854290
1,3,5-Trimethylbenzene	0.000397	J	0.000387	0.00100	1	03/09/2016 16:55	WG854290
Vinyl chloride	U		0.000259	0.00100	1	03/09/2016 16:55	WG854290
Xylenes, Total	U		0.00106	0.00300	1	03/09/2016 16:55	WG854290
(S) Toluene-d8	*99.0*			*90.0-115*		*03/09/2016 16:55*	WG854290
(S) Dibromofluoromethane	*98.3*			*79.0-121*		*03/09/2016 16:55*	WG854290
(S) 4-Bromofluorobenzene	*98.7*			*80.1-120*		*03/09/2016 16:55*	WG854290

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0108		0.0000140	0.0000500	1	03/07/2016 03:03	WG854241
Acenaphthene	0.0177		0.0000100	0.0000500	1	03/07/2016 03:03	WG854241
Acenaphthylene	0.0337		0.0000120	0.0000500	1	03/07/2016 03:03	WG854241
Benzo(a)anthracene	0.00321		0.00000410	0.0000500	1	03/07/2016 03:03	WG854241
Benzo(a)pyrene	0.00223		0.0000116	0.0000500	1	03/07/2016 03:03	WG854241
Benzo(b)fluoranthene	0.00151		0.00000212	0.0000500	1	03/07/2016 03:03	WG854241
Benzo(g,h,i)perylene	0.000692		0.00000227	0.0000500	1	03/07/2016 03:03	WG854241
Benzo(k)fluoranthene	0.000623		0.0000136	0.0000500	1	03/07/2016 03:03	WG854241
Chrysene	0.00250		0.0000108	0.0000500	1	03/07/2016 03:03	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 03:03	WG854241
Fluoranthene	0.00854		0.0000157	0.0000500	1	03/07/2016 03:03	WG854241
Fluorene	0.0186		0.00000850	0.0000500	1	03/07/2016 03:03	WG854241
Indeno(1,2,3-cd)pyrene	0.000591		0.0000148	0.0000500	1	03/07/2016 03:03	WG854241
Naphthalene	0.00412		0.0000198	0.000250	1	03/07/2016 03:03	WG854241
Phenanthrene	0.0443		0.00000820	0.0000500	1	03/07/2016 03:03	WG854241
Pyrene	0.0156		0.0000117	0.0000500	1	03/07/2016 03:03	WG854241
1-Methylnaphthalene	0.0650		0.00000821	0.000250	1	03/07/2016 03:03	WG854241
2-Methylnaphthalene	0.00632		0.00000902	0.000250	1	03/07/2016 03:03	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 03:03	WG854241
(S) Nitrobenzene-d5	*84.2*			*33.8-179*		*03/07/2016 03:03*	WG854241
(S) 2-Fluorobiphenyl	*78.8*			*55.5-150*		*03/07/2016 03:03*	WG854241
(S) p-Terphenyl-d14	*74.1*			*46.2-163*		*03/07/2016 03:03*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/09/2016 17:15	WG854290
Acrolein	U		0.00887	0.0500	1	03/09/2016 17:15	WG854290
Acrylonitrile	U		0.00187	0.0100	1	03/09/2016 17:15	WG854290
Benzene	0.000500	J	0.000331	0.00100	1	03/09/2016 17:15	WG854290
Bromobenzene	U		0.000352	0.00100	1	03/09/2016 17:15	WG854290
Bromodichloromethane	U		0.000380	0.00100	1	03/09/2016 17:15	WG854290
Bromoform	U		0.000469	0.00100	1	03/09/2016 17:15	WG854290
Bromomethane	U		0.000866	0.00500	1	03/09/2016 17:15	WG854290
n-Butylbenzene	U		0.000361	0.00100	1	03/09/2016 17:15	WG854290
sec-Butylbenzene	U		0.000365	0.00100	1	03/09/2016 17:15	WG854290
tert-Butylbenzene	U		0.000399	0.00100	1	03/09/2016 17:15	WG854290
Carbon tetrachloride	U		0.000379	0.00100	1	03/09/2016 17:15	WG854290
Chlorobenzene	U		0.000348	0.00100	1	03/09/2016 17:15	WG854290
Chlorodibromomethane	U		0.000327	0.00100	1	03/09/2016 17:15	WG854290
Chloroethane	U		0.000453	0.00500	1	03/09/2016 17:15	WG854290
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	03/09/2016 17:15	WG854290
Chloroform	U		0.000324	0.00500	1	03/09/2016 17:15	WG854290
Chloromethane	U		0.000276	0.00250	1	03/09/2016 17:15	WG854290
2-Chlorotoluene	U		0.000375	0.00100	1	03/09/2016 17:15	WG854290
4-Chlorotoluene	U		0.000351	0.00100	1	03/09/2016 17:15	WG854290
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/09/2016 17:15	WG854290
1,2-Dibromoethane	U		0.000381	0.00100	1	03/09/2016 17:15	WG854290
Dibromomethane	U		0.000346	0.00100	1	03/09/2016 17:15	WG854290
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/09/2016 17:15	WG854290
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/09/2016 17:15	WG854290
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/09/2016 17:15	WG854290
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/09/2016 17:15	WG854290
1,1-Dichloroethane	U		0.000259	0.00100	1	03/09/2016 17:15	WG854290
1,2-Dichloroethane	U		0.000361	0.00100	1	03/09/2016 17:15	WG854290
1,1-Dichloroethene	U		0.000398	0.00100	1	03/09/2016 17:15	WG854290
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/09/2016 17:15	WG854290
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/09/2016 17:15	WG854290
1,2-Dichloropropane	U		0.000306	0.00100	1	03/09/2016 17:15	WG854290
1,1-Dichloropropene	U		0.000352	0.00100	1	03/09/2016 17:15	WG854290
1,3-Dichloropropane	U		0.000366	0.00100	1	03/09/2016 17:15	WG854290
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/09/2016 17:15	WG854290
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/09/2016 17:15	WG854290
2,2-Dichloropropane	U		0.000321	0.00100	1	03/09/2016 17:15	WG854290
Di-isopropyl ether	U		0.000320	0.00100	1	03/09/2016 17:15	WG854290
Ethylbenzene	0.00614		0.000384	0.00100	1	03/09/2016 17:15	WG854290
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/09/2016 17:15	WG854290
Isopropylbenzene	0.00185		0.000326	0.00100	1	03/09/2016 17:15	WG854290
p-Isopropyltoluene	U		0.000350	0.00100	1	03/09/2016 17:15	WG854290
2-Butanone (MEK)	U		0.00393	0.0100	1	03/09/2016 17:15	WG854290
Methylene Chloride	U		0.00100	0.00500	1	03/09/2016 17:15	WG854290
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/09/2016 17:15	WG854290
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/09/2016 17:15	WG854290
Naphthalene	0.0564		0.00100	0.00500	1	03/09/2016 17:15	WG854290
n-Propylbenzene	0.000765	J	0.000349	0.00100	1	03/09/2016 17:15	WG854290
Styrene	U		0.000307	0.00100	1	03/09/2016 17:15	WG854290
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/09/2016 17:15	WG854290
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/09/2016 17:15	WG854290
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/09/2016 17:15	WG854290
Tetrachloroethene	U		0.000372	0.00100	1	03/09/2016 17:15	WG854290
Toluene	U		0.000780	0.00500	1	03/09/2016 17:15	WG854290
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/09/2016 17:15	WG854290

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/09/2016 17:15	WG854290
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/09/2016 17:15	WG854290
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/09/2016 17:15	WG854290
Trichloroethene	U		0.000398	0.00100	1	03/09/2016 17:15	WG854290
Trichlorofluoromethane	U		0.00120	0.00500	1	03/09/2016 17:15	WG854290
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/09/2016 17:15	WG854290
1,2,4-Trimethylbenzene	0.00857		0.000373	0.00100	1	03/09/2016 17:15	WG854290
1,2,3-Trimethylbenzene	0.00283		0.000321	0.00100	1	03/09/2016 17:15	WG854290
1,3,5-Trimethylbenzene	0.00202		0.000387	0.00100	1	03/09/2016 17:15	WG854290
Vinyl chloride	U		0.000259	0.00100	1	03/09/2016 17:15	WG854290
Xylenes, Total	0.00487		0.00106	0.00300	1	03/09/2016 17:15	WG854290
(S) Toluene-d8	*98.7*			*90.0-115*		*03/09/2016 17:15*	WG854290
(S) Dibromofluoromethane	*101*			*79.0-121*		*03/09/2016 17:15*	WG854290
(S) 4-Bromofluorobenzene	*99.5*			*80.1-120*		*03/09/2016 17:15*	WG854290

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0161		0.0000140	0.0000500	1	03/07/2016 03:25	WG854241
Acenaphthene	0.0534		0.0000100	0.0000500	1	03/07/2016 03:25	WG854241
Acenaphthylene	0.0322		0.0000120	0.0000500	1	03/07/2016 03:25	WG854241
Benzo(a)anthracene	0.00153		0.00000410	0.0000500	1	03/07/2016 03:25	WG854241
Benzo(a)pyrene	0.000967		0.0000116	0.0000500	1	03/07/2016 03:25	WG854241
Benzo(b)fluoranthene	0.000765		0.00000212	0.0000500	1	03/07/2016 03:25	WG854241
Benzo(g,h,i)perylene	0.000379		0.00000227	0.0000500	1	03/07/2016 03:25	WG854241
Benzo(k)fluoranthene	0.000190		0.0000136	0.0000500	1	03/07/2016 03:25	WG854241
Chrysene	0.00121		0.0000108	0.0000500	1	03/07/2016 03:25	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 03:25	WG854241
Fluoranthene	0.00927		0.0000157	0.0000500	1	03/07/2016 03:25	WG854241
Fluorene	0.0368		0.00000850	0.0000500	1	03/07/2016 03:25	WG854241
Indeno(1,2,3-cd)pyrene	0.000301		0.0000148	0.0000500	1	03/07/2016 03:25	WG854241
Naphthalene	0.0519		0.0000198	0.000250	1	03/07/2016 03:25	WG854241
Phenanthrene	0.0750		0.00000820	0.0000500	1	03/07/2016 03:25	WG854241
Pyrene	0.0141		0.0000117	0.0000500	1	03/07/2016 03:25	WG854241
1-Methylnaphthalene	0.120		0.000164	0.00500	20	03/07/2016 13:22	WG854241
2-Methylnaphthalene	0.00261		0.00000902	0.000250	1	03/07/2016 03:25	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 03:25	WG854241
(S) Nitrobenzene-d5	*85.2*			*33.8-179*		*03/07/2016 03:25*	WG854241
(S) 2-Fluorobiphenyl	*76.0*			*55.5-150*		*03/07/2016 03:25*	WG854241
(S) p-Terphenyl-d14	*74.0*			*46.2-163*		*03/07/2016 03:25*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/09/2016 12:30	WG854290
Acrolein	U		0.00887	0.0500	1	03/09/2016 12:30	WG854290
Acrylonitrile	U		0.00187	0.0100	1	03/09/2016 12:30	WG854290
Benzene	0.139	V	0.000331	0.00100	1	03/09/2016 12:30	WG854290
Bromobenzene	U		0.000352	0.00100	1	03/09/2016 12:30	WG854290
Bromodichloromethane	U		0.000380	0.00100	1	03/09/2016 12:30	WG854290
Bromoform	U		0.000469	0.00100	1	03/09/2016 12:30	WG854290
Bromomethane	U		0.000866	0.00500	1	03/09/2016 12:30	WG854290
n-Butylbenzene	0.00116		0.000361	0.00100	1	03/09/2016 12:30	WG854290
sec-Butylbenzene	0.000512	J	0.000365	0.00100	1	03/09/2016 12:30	WG854290
tert-Butylbenzene	U		0.000399	0.00100	1	03/09/2016 12:30	WG854290
Carbon tetrachloride	U		0.000379	0.00100	1	03/09/2016 12:30	WG854290
Chlorobenzene	U		0.000348	0.00100	1	03/09/2016 12:30	WG854290
Chlorodibromomethane	U		0.000327	0.00100	1	03/09/2016 12:30	WG854290
Chloroethane	U		0.000453	0.00500	1	03/09/2016 12:30	WG854290
2-Chloroethyl vinyl ether	U	J3 J6	0.00301	0.0500	1	03/09/2016 12:30	WG854290
Chloroform	U		0.000324	0.00500	1	03/09/2016 12:30	WG854290
Chloromethane	U		0.000276	0.00250	1	03/09/2016 12:30	WG854290
2-Chlorotoluene	U		0.000375	0.00100	1	03/09/2016 12:30	WG854290
4-Chlorotoluene	U		0.000351	0.00100	1	03/09/2016 12:30	WG854290
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/09/2016 12:30	WG854290
1,2-Dibromoethane	U		0.000381	0.00100	1	03/09/2016 12:30	WG854290
Dibromomethane	U		0.000346	0.00100	1	03/09/2016 12:30	WG854290
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/09/2016 12:30	WG854290
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/09/2016 12:30	WG854290
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/09/2016 12:30	WG854290
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/09/2016 12:30	WG854290
1,1-Dichloroethane	U		0.000259	0.00100	1	03/09/2016 12:30	WG854290
1,2-Dichloroethane	U		0.000361	0.00100	1	03/09/2016 12:30	WG854290
1,1-Dichloroethene	U		0.000398	0.00100	1	03/09/2016 12:30	WG854290
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/09/2016 12:30	WG854290
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/09/2016 12:30	WG854290
1,2-Dichloropropane	U		0.000306	0.00100	1	03/09/2016 12:30	WG854290
1,1-Dichloropropene	U		0.000352	0.00100	1	03/09/2016 12:30	WG854290
1,3-Dichloropropane	U		0.000366	0.00100	1	03/09/2016 12:30	WG854290
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/09/2016 12:30	WG854290
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/09/2016 12:30	WG854290
2,2-Dichloropropane	U		0.000321	0.00100	1	03/09/2016 12:30	WG854290
Di-isopropyl ether	U		0.000320	0.00100	1	03/09/2016 12:30	WG854290
Ethylbenzene	0.133		0.000384	0.00100	1	03/09/2016 12:30	WG854290
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/09/2016 12:30	WG854290
Isopropylbenzene	0.0211		0.000326	0.00100	1	03/09/2016 12:30	WG854290
p-Isopropyltoluene	0.00471		0.000350	0.00100	1	03/09/2016 12:30	WG854290
2-Butanone (MEK)	U		0.00393	0.0100	1	03/09/2016 12:30	WG854290
Methylene Chloride	U		0.00100	0.00500	1	03/09/2016 12:30	WG854290
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/09/2016 12:30	WG854290
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/09/2016 12:30	WG854290
Naphthalene	0.190		0.00100	0.00500	1	03/09/2016 12:30	WG854290
n-Propylbenzene	0.00442		0.000349	0.00100	1	03/09/2016 12:30	WG854290
Styrene	U		0.000307	0.00100	1	03/09/2016 12:30	WG854290
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/09/2016 12:30	WG854290
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/09/2016 12:30	WG854290
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/09/2016 12:30	WG854290
Tetrachloroethene	U		0.000372	0.00100	1	03/09/2016 12:30	WG854290
Toluene	0.00478	J	0.000780	0.00500	1	03/09/2016 12:30	WG854290
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/09/2016 12:30	WG854290

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/09/2016 12:30	WG854290
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/09/2016 12:30	WG854290
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/09/2016 12:30	WG854290
Trichloroethene	U		0.000398	0.00100	1	03/09/2016 12:30	WG854290
Trichlorofluoromethane	U		0.00120	0.00500	1	03/09/2016 12:30	WG854290
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/09/2016 12:30	WG854290
1,2,4-Trimethylbenzene	0.0475		0.000373	0.00100	1	03/09/2016 12:30	WG854290
1,2,3-Trimethylbenzene	0.0345		0.000321	0.00100	1	03/09/2016 12:30	WG854290
1,3,5-Trimethylbenzene	0.00783		0.000387	0.00100	1	03/09/2016 12:30	WG854290
Vinyl chloride	U		0.000259	0.00100	1	03/09/2016 12:30	WG854290
Xylenes, Total	0.105		0.00106	0.00300	1	03/09/2016 12:30	WG854290
(S) Toluene-d8	*99.2*			*90.0-115*		*03/09/2016 12:30*	WG854290
(S) Dibromofluoromethane	*101*			*79.0-121*		*03/09/2016 12:30*	WG854290
(S) 4-Bromofluorobenzene	*95.7*			*80.1-120*		*03/09/2016 12:30*	WG854290

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0102	V	0.0000140	0.0000500	1	03/07/2016 03:47	WG854241
Acenaphthene	0.132		0.000200	0.00100	20	03/07/2016 18:46	WG854241
Acenaphthylene	0.0479	V	0.0000120	0.0000500	1	03/07/2016 03:47	WG854241
Benzo(a)anthracene	0.000136		0.00000410	0.0000500	1	03/07/2016 03:47	WG854241
Benzo(a)pyrene	0.0000217	J	0.0000116	0.0000500	1	03/07/2016 03:47	WG854241
Benzo(b)fluoranthene	0.0000204	J	0.00000212	0.0000500	1	03/07/2016 03:47	WG854241
Benzo(g,h,i)perylene	0.0000115	J	0.00000227	0.0000500	1	03/07/2016 03:47	WG854241
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	03/07/2016 03:47	WG854241
Chrysene	0.0000953		0.0000108	0.0000500	1	03/07/2016 03:47	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 03:47	WG854241
Fluoranthene	0.00319		0.0000157	0.0000500	1	03/07/2016 03:47	WG854241
Fluorene	0.0302	V	0.00000850	0.0000500	1	03/07/2016 03:47	WG854241
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	03/07/2016 03:47	WG854241
Naphthalene	0.147		0.000396	0.00500	20	03/07/2016 18:46	WG854241
Phenanthrene	0.0474	V	0.00000820	0.0000500	1	03/07/2016 03:47	WG854241
Pyrene	0.00453	J6	0.0000117	0.0000500	1	03/07/2016 03:47	WG854241
1-Methylnaphthalene	0.446		0.000164	0.00500	20	03/07/2016 18:46	WG854241
2-Methylnaphthalene	0.00186		0.00000902	0.000250	1	03/07/2016 03:47	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 03:47	WG854241
(S) Nitrobenzene-d5	*89.1*			*33.8-179*		*03/07/2016 03:47*	WG854241
(S) 2-Fluorobiphenyl	*83.4*			*55.5-150*		*03/07/2016 03:47*	WG854241
(S) p-Terphenyl-d14	*79.1*			*46.2-163*		*03/07/2016 03:47*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/09/2016 17:35	WG854290
Acrolein	U		0.00887	0.0500	1	03/09/2016 17:35	WG854290
Acrylonitrile	U		0.00187	0.0100	1	03/09/2016 17:35	WG854290
Benzene	0.00227		0.000331	0.00100	1	03/09/2016 17:35	WG854290
Bromobenzene	U		0.000352	0.00100	1	03/09/2016 17:35	WG854290
Bromodichloromethane	U		0.000380	0.00100	1	03/09/2016 17:35	WG854290
Bromoform	U		0.000469	0.00100	1	03/09/2016 17:35	WG854290
Bromomethane	U		0.000866	0.00500	1	03/09/2016 17:35	WG854290
n-Butylbenzene	U		0.000361	0.00100	1	03/09/2016 17:35	WG854290
sec-Butylbenzene	U		0.000365	0.00100	1	03/09/2016 17:35	WG854290
tert-Butylbenzene	U		0.000399	0.00100	1	03/09/2016 17:35	WG854290
Carbon tetrachloride	U		0.000379	0.00100	1	03/09/2016 17:35	WG854290
Chlorobenzene	U		0.000348	0.00100	1	03/09/2016 17:35	WG854290
Chlorodibromomethane	U		0.000327	0.00100	1	03/09/2016 17:35	WG854290
Chloroethane	U		0.000453	0.00500	1	03/09/2016 17:35	WG854290
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	03/09/2016 17:35	WG854290
Chloroform	U		0.000324	0.00500	1	03/09/2016 17:35	WG854290
Chloromethane	U		0.000276	0.00250	1	03/09/2016 17:35	WG854290
2-Chlorotoluene	U		0.000375	0.00100	1	03/09/2016 17:35	WG854290
4-Chlorotoluene	U		0.000351	0.00100	1	03/09/2016 17:35	WG854290
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/09/2016 17:35	WG854290
1,2-Dibromoethane	U		0.000381	0.00100	1	03/09/2016 17:35	WG854290
Dibromomethane	U		0.000346	0.00100	1	03/09/2016 17:35	WG854290
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/09/2016 17:35	WG854290
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/09/2016 17:35	WG854290
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/09/2016 17:35	WG854290
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/09/2016 17:35	WG854290
1,1-Dichloroethane	U		0.000259	0.00100	1	03/09/2016 17:35	WG854290
1,2-Dichloroethane	U		0.000361	0.00100	1	03/09/2016 17:35	WG854290
1,1-Dichloroethene	U		0.000398	0.00100	1	03/09/2016 17:35	WG854290
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/09/2016 17:35	WG854290
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/09/2016 17:35	WG854290
1,2-Dichloropropane	U		0.000306	0.00100	1	03/09/2016 17:35	WG854290
1,1-Dichloropropene	U		0.000352	0.00100	1	03/09/2016 17:35	WG854290
1,3-Dichloropropane	U		0.000366	0.00100	1	03/09/2016 17:35	WG854290
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/09/2016 17:35	WG854290
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/09/2016 17:35	WG854290
2,2-Dichloropropane	U		0.000321	0.00100	1	03/09/2016 17:35	WG854290
Di-isopropyl ether	U		0.000320	0.00100	1	03/09/2016 17:35	WG854290
Ethylbenzene	U		0.000384	0.00100	1	03/09/2016 17:35	WG854290
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/09/2016 17:35	WG854290
Isopropylbenzene	0.00103		0.000326	0.00100	1	03/09/2016 17:35	WG854290
p-Isopropyltoluene	U		0.000350	0.00100	1	03/09/2016 17:35	WG854290
2-Butanone (MEK)	U		0.00393	0.0100	1	03/09/2016 17:35	WG854290
Methylene Chloride	U		0.00100	0.00500	1	03/09/2016 17:35	WG854290
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/09/2016 17:35	WG854290
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/09/2016 17:35	WG854290
Naphthalene	0.00419	J	0.00100	0.00500	1	03/09/2016 17:35	WG854290
n-Propylbenzene	U		0.000349	0.00100	1	03/09/2016 17:35	WG854290
Styrene	U		0.000307	0.00100	1	03/09/2016 17:35	WG854290
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/09/2016 17:35	WG854290
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/09/2016 17:35	WG854290
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/09/2016 17:35	WG854290
Tetrachloroethene	U		0.000372	0.00100	1	03/09/2016 17:35	WG854290
Toluene	U		0.000780	0.00500	1	03/09/2016 17:35	WG854290
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/09/2016 17:35	WG854290

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/09/2016 17:35	WG854290
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/09/2016 17:35	WG854290
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/09/2016 17:35	WG854290
Trichloroethene	U		0.000398	0.00100	1	03/09/2016 17:35	WG854290
Trichlorofluoromethane	U		0.00120	0.00500	1	03/09/2016 17:35	WG854290
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/09/2016 17:35	WG854290
1,2,4-Trimethylbenzene	0.00240		0.000373	0.00100	1	03/09/2016 17:35	WG854290
1,2,3-Trimethylbenzene	0.00274		0.000321	0.00100	1	03/09/2016 17:35	WG854290
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	03/09/2016 17:35	WG854290
Vinyl chloride	U		0.000259	0.00100	1	03/09/2016 17:35	WG854290
Xylenes, Total	0.00449		0.00106	0.00300	1	03/09/2016 17:35	WG854290
(S) Toluene-d8	*98.9*			*90.0-115*		*03/09/2016 17:35*	WG854290
(S) Dibromofluoromethane	*98.7*			*79.0-121*		*03/09/2016 17:35*	WG854290
(S) 4-Bromofluorobenzene	*96.7*			*80.1-120*		*03/09/2016 17:35*	WG854290

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.000235		0.0000140	0.0000500	1	03/07/2016 04:52	WG854241
Acenaphthene	0.00832		0.0000100	0.0000500	1	03/07/2016 04:52	WG854241
Acenaphthylene	0.000962		0.0000120	0.0000500	1	03/07/2016 04:52	WG854241
Benzo(a)anthracene	0.0000212	J	0.00000410	0.0000500	1	03/07/2016 04:52	WG854241
Benzo(a)pyrene	U		0.0000116	0.0000500	1	03/07/2016 04:52	WG854241
Benzo(b)fluoranthene	0.00000570	J	0.00000212	0.0000500	1	03/07/2016 04:52	WG854241
Benzo(g,h,i)perylene	0.00000371	J	0.00000227	0.0000500	1	03/07/2016 04:52	WG854241
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	03/07/2016 04:52	WG854241
Chrysene	0.0000113	J	0.0000108	0.0000500	1	03/07/2016 04:52	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 04:52	WG854241
Fluoranthene	0.0000941		0.0000157	0.0000500	1	03/07/2016 04:52	WG854241
Fluorene	0.000768		0.00000850	0.0000500	1	03/07/2016 04:52	WG854241
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	03/07/2016 04:52	WG854241
Naphthalene	0.00178		0.0000198	0.000250	1	03/07/2016 04:52	WG854241
Phenanthrene	0.000629		0.00000820	0.0000500	1	03/07/2016 04:52	WG854241
Pyrene	0.000140		0.0000117	0.0000500	1	03/07/2016 04:52	WG854241
1-Methylnaphthalene	0.0238		0.00000821	0.000250	1	03/07/2016 04:52	WG854241
2-Methylnaphthalene	0.0000509	J	0.00000902	0.000250	1	03/07/2016 04:52	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 04:52	WG854241
(S) Nitrobenzene-d5	*84.5*			*33.8-179*		*03/07/2016 04:52*	WG854241
(S) 2-Fluorobiphenyl	*84.9*			*55.5-150*		*03/07/2016 04:52*	WG854241
(S) p-Terphenyl-d14	*73.9*			*46.2-163*		*03/07/2016 04:52*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/09/2016 17:56	WG854290
Acrolein	U		0.00887	0.0500	1	03/09/2016 17:56	WG854290
Acrylonitrile	U		0.00187	0.0100	1	03/09/2016 17:56	WG854290
Benzene	0.0381		0.000331	0.00100	1	03/09/2016 17:56	WG854290
Bromobenzene	U		0.000352	0.00100	1	03/09/2016 17:56	WG854290
Bromodichloromethane	U		0.000380	0.00100	1	03/09/2016 17:56	WG854290
Bromoform	U		0.000469	0.00100	1	03/09/2016 17:56	WG854290
Bromomethane	U		0.000866	0.00500	1	03/09/2016 17:56	WG854290
n-Butylbenzene	0.000767	J	0.000361	0.00100	1	03/09/2016 17:56	WG854290
sec-Butylbenzene	0.000388	J	0.000365	0.00100	1	03/09/2016 17:56	WG854290
tert-Butylbenzene	U		0.000399	0.00100	1	03/09/2016 17:56	WG854290
Carbon tetrachloride	U		0.000379	0.00100	1	03/09/2016 17:56	WG854290
Chlorobenzene	U		0.000348	0.00100	1	03/09/2016 17:56	WG854290
Chlorodibromomethane	U		0.000327	0.00100	1	03/09/2016 17:56	WG854290
Chloroethane	U		0.000453	0.00500	1	03/09/2016 17:56	WG854290
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	03/09/2016 17:56	WG854290
Chloroform	U		0.000324	0.00500	1	03/09/2016 17:56	WG854290
Chloromethane	U		0.000276	0.00250	1	03/09/2016 17:56	WG854290
2-Chlorotoluene	U		0.000375	0.00100	1	03/09/2016 17:56	WG854290
4-Chlorotoluene	U		0.000351	0.00100	1	03/09/2016 17:56	WG854290
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/09/2016 17:56	WG854290
1,2-Dibromoethane	U		0.000381	0.00100	1	03/09/2016 17:56	WG854290
Dibromomethane	U		0.000346	0.00100	1	03/09/2016 17:56	WG854290
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/09/2016 17:56	WG854290
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/09/2016 17:56	WG854290
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/09/2016 17:56	WG854290
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/09/2016 17:56	WG854290
1,1-Dichloroethane	U		0.000259	0.00100	1	03/09/2016 17:56	WG854290
1,2-Dichloroethane	U		0.000361	0.00100	1	03/09/2016 17:56	WG854290
1,1-Dichloroethene	U		0.000398	0.00100	1	03/09/2016 17:56	WG854290
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/09/2016 17:56	WG854290
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/09/2016 17:56	WG854290
1,2-Dichloropropane	U		0.000306	0.00100	1	03/09/2016 17:56	WG854290
1,1-Dichloropropene	U		0.000352	0.00100	1	03/09/2016 17:56	WG854290
1,3-Dichloropropane	U		0.000366	0.00100	1	03/09/2016 17:56	WG854290
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/09/2016 17:56	WG854290
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/09/2016 17:56	WG854290
2,2-Dichloropropane	U		0.000321	0.00100	1	03/09/2016 17:56	WG854290
Di-isopropyl ether	U		0.000320	0.00100	1	03/09/2016 17:56	WG854290
Ethylbenzene	0.0215		0.000384	0.00100	1	03/09/2016 17:56	WG854290
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/09/2016 17:56	WG854290
Isopropylbenzene	0.0135		0.000326	0.00100	1	03/09/2016 17:56	WG854290
p-Isopropyltoluene	U		0.000350	0.00100	1	03/09/2016 17:56	WG854290
2-Butanone (MEK)	U		0.00393	0.0100	1	03/09/2016 17:56	WG854290
Methylene Chloride	U		0.00100	0.00500	1	03/09/2016 17:56	WG854290
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/09/2016 17:56	WG854290
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/09/2016 17:56	WG854290
Naphthalene	0.0177		0.00100	0.00500	1	03/09/2016 17:56	WG854290
n-Propylbenzene	0.00152		0.000349	0.00100	1	03/09/2016 17:56	WG854290
Styrene	U		0.000307	0.00100	1	03/09/2016 17:56	WG854290
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/09/2016 17:56	WG854290
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/09/2016 17:56	WG854290
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/09/2016 17:56	WG854290
Tetrachloroethene	U		0.000372	0.00100	1	03/09/2016 17:56	WG854290
Toluene	0.00133	J	0.000780	0.00500	1	03/09/2016 17:56	WG854290
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/09/2016 17:56	WG854290

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/09/2016 17:56	WG854290
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/09/2016 17:56	WG854290
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/09/2016 17:56	WG854290
Trichloroethene	U		0.000398	0.00100	1	03/09/2016 17:56	WG854290
Trichlorofluoromethane	U		0.00120	0.00500	1	03/09/2016 17:56	WG854290
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/09/2016 17:56	WG854290
1,2,4-Trimethylbenzene	0.0155		0.000373	0.00100	1	03/09/2016 17:56	WG854290
1,2,3-Trimethylbenzene	0.0228		0.000321	0.00100	1	03/09/2016 17:56	WG854290
1,3,5-Trimethylbenzene	0.00158		0.000387	0.00100	1	03/09/2016 17:56	WG854290
Vinyl chloride	U		0.000259	0.00100	1	03/09/2016 17:56	WG854290
Xylenes, Total	0.0426		0.00106	0.00300	1	03/09/2016 17:56	WG854290
(S) Toluene-d8	*98.5*			*90.0-115*		*03/09/2016 17:56*	WG854290
(S) Dibromofluoromethane	*101*			*79.0-121*		*03/09/2016 17:56*	WG854290
(S) 4-Bromofluorobenzene	*98.4*			*80.1-120*		*03/09/2016 17:56*	WG854290

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00831		0.0000140	0.0000500	1	03/07/2016 05:14	WG854241
Acenaphthene	0.112		0.000200	0.00100	20	03/07/2016 19:07	WG854241
Acenaphthylene	0.0311		0.0000120	0.0000500	1	03/07/2016 05:14	WG854241
Benzo(a)anthracene	0.000128		0.00000410	0.0000500	1	03/07/2016 05:14	WG854241
Benzo(a)pyrene	U		0.0000116	0.0000500	1	03/07/2016 05:14	WG854241
Benzo(b)fluoranthene	0.00000735	J	0.00000212	0.0000500	1	03/07/2016 05:14	WG854241
Benzo(g,h,i)perylene	0.00000491	J	0.00000227	0.0000500	1	03/07/2016 05:14	WG854241
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	03/07/2016 05:14	WG854241
Chrysene	0.0000815		0.0000108	0.0000500	1	03/07/2016 05:14	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 05:14	WG854241
Fluoranthene	0.00274		0.0000157	0.0000500	1	03/07/2016 05:14	WG854241
Fluorene	0.00265		0.00000850	0.0000500	1	03/07/2016 05:14	WG854241
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	03/07/2016 05:14	WG854241
Naphthalene	0.00960		0.0000198	0.000250	1	03/07/2016 05:14	WG854241
Phenanthrene	0.0388		0.00000820	0.0000500	1	03/07/2016 05:14	WG854241
Pyrene	0.00434		0.0000117	0.0000500	1	03/07/2016 05:14	WG854241
1-Methylnaphthalene	0.278		0.000164	0.00500	20	03/07/2016 19:07	WG854241
2-Methylnaphthalene	0.000172	J	0.00000902	0.000250	1	03/07/2016 05:14	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 05:14	WG854241
(S) Nitrobenzene-d5	*80.9*			*33.8-179*		*03/07/2016 05:14*	WG854241
(S) 2-Fluorobiphenyl	*78.9*			*55.5-150*		*03/07/2016 05:14*	WG854241
(S) p-Terphenyl-d14	*70.5*			*46.2-163*		*03/07/2016 05:14*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/10/2016 15:37	WG854828
Acrolein	U		0.00887	0.0500	1	03/10/2016 15:37	WG854828
Acrylonitrile	U		0.00187	0.0100	1	03/10/2016 15:37	WG854828
Benzene	U		0.000331	0.00100	1	03/10/2016 15:37	WG854828
Bromobenzene	U		0.000352	0.00100	1	03/10/2016 15:37	WG854828
Bromodichloromethane	U		0.000380	0.00100	1	03/10/2016 15:37	WG854828
Bromoform	U		0.000469	0.00100	1	03/10/2016 15:37	WG854828
Bromomethane	U		0.000866	0.00500	1	03/10/2016 15:37	WG854828
n-Butylbenzene	U		0.000361	0.00100	1	03/10/2016 15:37	WG854828
sec-Butylbenzene	U		0.000365	0.00100	1	03/10/2016 15:37	WG854828
tert-Butylbenzene	U		0.000399	0.00100	1	03/10/2016 15:37	WG854828
Carbon tetrachloride	U		0.000379	0.00100	1	03/10/2016 15:37	WG854828
Chlorobenzene	U		0.000348	0.00100	1	03/10/2016 15:37	WG854828
Chlorodibromomethane	U		0.000327	0.00100	1	03/10/2016 15:37	WG854828
Chloroethane	U		0.000453	0.00500	1	03/10/2016 15:37	WG854828
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	03/10/2016 15:37	WG854828
Chloroform	U		0.000324	0.00500	1	03/10/2016 15:37	WG854828
Chloromethane	U		0.000276	0.00250	1	03/10/2016 15:37	WG854828
2-Chlorotoluene	U		0.000375	0.00100	1	03/10/2016 15:37	WG854828
4-Chlorotoluene	U		0.000351	0.00100	1	03/10/2016 15:37	WG854828
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/10/2016 15:37	WG854828
1,2-Dibromoethane	U		0.000381	0.00100	1	03/10/2016 15:37	WG854828
Dibromomethane	U		0.000346	0.00100	1	03/10/2016 15:37	WG854828
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/10/2016 15:37	WG854828
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/10/2016 15:37	WG854828
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/10/2016 15:37	WG854828
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/10/2016 15:37	WG854828
1,1-Dichloroethane	U		0.000259	0.00100	1	03/10/2016 15:37	WG854828
1,2-Dichloroethane	U		0.000361	0.00100	1	03/10/2016 15:37	WG854828
1,1-Dichloroethene	U		0.000398	0.00100	1	03/10/2016 15:37	WG854828
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/10/2016 15:37	WG854828
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/10/2016 15:37	WG854828
1,2-Dichloropropane	U		0.000306	0.00100	1	03/10/2016 15:37	WG854828
1,1-Dichloropropene	U		0.000352	0.00100	1	03/10/2016 15:37	WG854828
1,3-Dichloropropane	U		0.000366	0.00100	1	03/10/2016 15:37	WG854828
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/10/2016 15:37	WG854828
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/10/2016 15:37	WG854828
2,2-Dichloropropane	U		0.000321	0.00100	1	03/10/2016 15:37	WG854828
Di-isopropyl ether	U		0.000320	0.00100	1	03/10/2016 15:37	WG854828
Ethylbenzene	U		0.000384	0.00100	1	03/10/2016 15:37	WG854828
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/10/2016 15:37	WG854828
Isopropylbenzene	U		0.000326	0.00100	1	03/10/2016 15:37	WG854828
p-Isopropyltoluene	U		0.000350	0.00100	1	03/10/2016 15:37	WG854828
2-Butanone (MEK)	U		0.00393	0.0100	1	03/10/2016 15:37	WG854828
Methylene Chloride	U		0.00100	0.00500	1	03/10/2016 15:37	WG854828
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/10/2016 15:37	WG854828
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/10/2016 15:37	WG854828
Naphthalene	U		0.00100	0.00500	1	03/10/2016 15:37	WG854828
n-Propylbenzene	U		0.000349	0.00100	1	03/10/2016 15:37	WG854828
Styrene	U		0.000307	0.00100	1	03/10/2016 15:37	WG854828
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/10/2016 15:37	WG854828
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/10/2016 15:37	WG854828
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/10/2016 15:37	WG854828
Tetrachloroethene	U		0.000372	0.00100	1	03/10/2016 15:37	WG854828
Toluene	U		0.000780	0.00500	1	03/10/2016 15:37	WG854828
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/10/2016 15:37	WG854828

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/10/2016 15:37	WG854828
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/10/2016 15:37	WG854828
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/10/2016 15:37	WG854828
Trichloroethene	U		0.000398	0.00100	1	03/10/2016 15:37	WG854828
Trichlorofluoromethane	U		0.00120	0.00500	1	03/10/2016 15:37	WG854828
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/10/2016 15:37	WG854828
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	03/10/2016 15:37	WG854828
1,2,3-Trimethylbenzene	0.000479	J	0.000321	0.00100	1	03/10/2016 15:37	WG854828
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	03/10/2016 15:37	WG854828
Vinyl chloride	U		0.000259	0.00100	1	03/10/2016 15:37	WG854828
Xylenes, Total	U		0.00106	0.00300	1	03/10/2016 15:37	WG854828
(S) Toluene-d8	*98.3*			*90.0-115*		*03/10/2016 15:37*	WG854828
(S) Dibromofluoromethane	*101*			*79.0-121*		*03/10/2016 15:37*	WG854828
(S) 4-Bromofluorobenzene	*97.6*			*80.1-120*		*03/10/2016 15:37*	WG854828

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00927		0.0000140	0.0000500	1	03/07/2016 05:36	WG854241
Acenaphthene	0.00420		0.0000100	0.0000500	1	03/07/2016 05:36	WG854241
Acenaphthylene	0.00722		0.0000120	0.0000500	1	03/07/2016 05:36	WG854241
Benzo(a)anthracene	0.00126		0.00000410	0.0000500	1	03/07/2016 05:36	WG854241
Benzo(a)pyrene	0.000633		0.0000116	0.0000500	1	03/07/2016 05:36	WG854241
Benzo(b)fluoranthene	0.000477		0.00000212	0.0000500	1	03/07/2016 05:36	WG854241
Benzo(g,h,i)perylene	0.000172		0.00000227	0.0000500	1	03/07/2016 05:36	WG854241
Benzo(k)fluoranthene	0.000127		0.0000136	0.0000500	1	03/07/2016 05:36	WG854241
Chrysene	0.000988		0.0000108	0.0000500	1	03/07/2016 05:36	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 05:36	WG854241
Fluoranthene	0.00596		0.0000157	0.0000500	1	03/07/2016 05:36	WG854241
Fluorene	U		0.00000850	0.0000500	1	03/07/2016 05:36	WG854241
Indeno(1,2,3-cd)pyrene	0.000142		0.0000148	0.0000500	1	03/07/2016 05:36	WG854241
Naphthalene	0.000591		0.0000198	0.000250	1	03/07/2016 05:36	WG854241
Phenanthrene	0.0137		0.00000820	0.0000500	1	03/07/2016 05:36	WG854241
Pyrene	0.0101		0.0000117	0.0000500	1	03/07/2016 05:36	WG854241
1-Methylnaphthalene	0.00219		0.00000821	0.000250	1	03/07/2016 05:36	WG854241
2-Methylnaphthalene	0.0000455	J	0.00000902	0.000250	1	03/07/2016 05:36	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 05:36	WG854241
(S) Nitrobenzene-d5	*81.3*			*33.8-179*		*03/07/2016 05:36*	WG854241
(S) 2-Fluorobiphenyl	*82.6*			*55.5-150*		*03/07/2016 05:36*	WG854241
(S) p-Terphenyl-d14	*70.3*			*46.2-163*		*03/07/2016 05:36*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/10/2016 15:57	WG854828
Acrolein	U		0.00887	0.0500	1	03/10/2016 15:57	WG854828
Acrylonitrile	U		0.00187	0.0100	1	03/10/2016 15:57	WG854828
Benzene	U		0.000331	0.00100	1	03/10/2016 15:57	WG854828
Bromobenzene	U		0.000352	0.00100	1	03/10/2016 15:57	WG854828
Bromodichloromethane	U		0.000380	0.00100	1	03/10/2016 15:57	WG854828
Bromoform	U		0.000469	0.00100	1	03/10/2016 15:57	WG854828
Bromomethane	U		0.000866	0.00500	1	03/10/2016 15:57	WG854828
n-Butylbenzene	U		0.000361	0.00100	1	03/10/2016 15:57	WG854828
sec-Butylbenzene	U		0.000365	0.00100	1	03/10/2016 15:57	WG854828
tert-Butylbenzene	U		0.000399	0.00100	1	03/10/2016 15:57	WG854828
Carbon tetrachloride	U		0.000379	0.00100	1	03/10/2016 15:57	WG854828
Chlorobenzene	U		0.000348	0.00100	1	03/10/2016 15:57	WG854828
Chlorodibromomethane	U		0.000327	0.00100	1	03/10/2016 15:57	WG854828
Chloroethane	U		0.000453	0.00500	1	03/10/2016 15:57	WG854828
2-Chloroethyl vinyl ether	U		0.00301	0.0500	1	03/10/2016 15:57	WG854828
Chloroform	U		0.000324	0.00500	1	03/10/2016 15:57	WG854828
Chloromethane	U		0.000276	0.00250	1	03/10/2016 15:57	WG854828
2-Chlorotoluene	U		0.000375	0.00100	1	03/10/2016 15:57	WG854828
4-Chlorotoluene	U		0.000351	0.00100	1	03/10/2016 15:57	WG854828
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/10/2016 15:57	WG854828
1,2-Dibromoethane	U		0.000381	0.00100	1	03/10/2016 15:57	WG854828
Dibromomethane	U		0.000346	0.00100	1	03/10/2016 15:57	WG854828
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/10/2016 15:57	WG854828
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/10/2016 15:57	WG854828
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/10/2016 15:57	WG854828
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/10/2016 15:57	WG854828
1,1-Dichloroethane	U		0.000259	0.00100	1	03/10/2016 15:57	WG854828
1,2-Dichloroethane	U		0.000361	0.00100	1	03/10/2016 15:57	WG854828
1,1-Dichloroethene	U		0.000398	0.00100	1	03/10/2016 15:57	WG854828
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/10/2016 15:57	WG854828
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/10/2016 15:57	WG854828
1,2-Dichloropropane	U		0.000306	0.00100	1	03/10/2016 15:57	WG854828
1,1-Dichloropropene	U		0.000352	0.00100	1	03/10/2016 15:57	WG854828
1,3-Dichloropropane	U		0.000366	0.00100	1	03/10/2016 15:57	WG854828
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/10/2016 15:57	WG854828
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/10/2016 15:57	WG854828
2,2-Dichloropropane	U		0.000321	0.00100	1	03/10/2016 15:57	WG854828
Di-isopropyl ether	U		0.000320	0.00100	1	03/10/2016 15:57	WG854828
Ethylbenzene	U		0.000384	0.00100	1	03/10/2016 15:57	WG854828
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/10/2016 15:57	WG854828
Isopropylbenzene	U		0.000326	0.00100	1	03/10/2016 15:57	WG854828
p-Isopropyltoluene	U		0.000350	0.00100	1	03/10/2016 15:57	WG854828
2-Butanone (MEK)	U		0.00393	0.0100	1	03/10/2016 15:57	WG854828
Methylene Chloride	U		0.00100	0.00500	1	03/10/2016 15:57	WG854828
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/10/2016 15:57	WG854828
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/10/2016 15:57	WG854828
Naphthalene	0.00473	J	0.00100	0.00500	1	03/10/2016 15:57	WG854828
n-Propylbenzene	U		0.000349	0.00100	1	03/10/2016 15:57	WG854828
Styrene	U		0.000307	0.00100	1	03/10/2016 15:57	WG854828
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/10/2016 15:57	WG854828
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/10/2016 15:57	WG854828
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/10/2016 15:57	WG854828
Tetrachloroethene	U		0.000372	0.00100	1	03/10/2016 15:57	WG854828
Toluene	U		0.000780	0.00500	1	03/10/2016 15:57	WG854828
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/10/2016 15:57	WG854828

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/10/2016 15:57	WG854828
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/10/2016 15:57	WG854828
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/10/2016 15:57	WG854828
Trichloroethene	U		0.000398	0.00100	1	03/10/2016 15:57	WG854828
Trichlorofluoromethane	U		0.00120	0.00500	1	03/10/2016 15:57	WG854828
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/10/2016 15:57	WG854828
1,2,4-Trimethylbenzene	0.00228		0.000373	0.00100	1	03/10/2016 15:57	WG854828
1,2,3-Trimethylbenzene	0.00155		0.000321	0.00100	1	03/10/2016 15:57	WG854828
1,3,5-Trimethylbenzene	0.00174		0.000387	0.00100	1	03/10/2016 15:57	WG854828
Vinyl chloride	U		0.000259	0.00100	1	03/10/2016 15:57	WG854828
Xylenes, Total	0.00222	J	0.00106	0.00300	1	03/10/2016 15:57	WG854828
(S) Toluene-d8	*98.0*			*90.0-115*		*03/10/2016 15:57*	WG854828
(S) Dibromofluoromethane	*102*			*79.0-121*		*03/10/2016 15:57*	WG854828
(S) 4-Bromofluorobenzene	*97.2*			*80.1-120*		*03/10/2016 15:57*	WG854828

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00162		0.0000140	0.0000500	1	03/07/2016 05:58	WG854241
Acenaphthene	0.0278		0.0000100	0.0000500	1	03/07/2016 05:58	WG854241
Acenaphthylene	0.00276		0.0000120	0.0000500	1	03/07/2016 05:58	WG854241
Benzo(a)anthracene	0.000153		0.00000410	0.0000500	1	03/07/2016 05:58	WG854241
Benzo(a)pyrene	0.0000557		0.0000116	0.0000500	1	03/07/2016 05:58	WG854241
Benzo(b)fluoranthene	0.0000398	J	0.00000212	0.0000500	1	03/07/2016 05:58	WG854241
Benzo(g,h,i)perylene	0.0000143	J	0.00000227	0.0000500	1	03/07/2016 05:58	WG854241
Benzo(k)fluoranthene	0.0000192	J	0.0000136	0.0000500	1	03/07/2016 05:58	WG854241
Chrysene	0.000135		0.0000108	0.0000500	1	03/07/2016 05:58	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 05:58	WG854241
Fluoranthene	0.000987		0.0000157	0.0000500	1	03/07/2016 05:58	WG854241
Fluorene	0.00457		0.00000850	0.0000500	1	03/07/2016 05:58	WG854241
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	03/07/2016 05:58	WG854241
Naphthalene	0.000720		0.0000198	0.000250	1	03/07/2016 05:58	WG854241
Phenanthrene	0.000621		0.00000820	0.0000500	1	03/07/2016 05:58	WG854241
Pyrene	0.00180		0.0000117	0.0000500	1	03/07/2016 05:58	WG854241
1-Methylnaphthalene	0.0178		0.00000821	0.000250	1	03/07/2016 05:58	WG854241
2-Methylnaphthalene	0.000121	J	0.00000902	0.000250	1	03/07/2016 05:58	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 05:58	WG854241
(S) Nitrobenzene-d5	*82.2*			*33.8-179*		*03/07/2016 05:58*	WG854241
(S) 2-Fluorobiphenyl	*84.4*			*55.5-150*		*03/07/2016 05:58*	WG854241
(S) p-Terphenyl-d14	*76.6*			*46.2-163*		*03/07/2016 05:58*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/10/2016 09:53	WG854294
Acrolein	U		0.00887	0.0500	1	03/10/2016 09:53	WG854294
Acrylonitrile	U		0.00187	0.0100	1	03/10/2016 09:53	WG854294
Benzene	U		0.000331	0.00100	1	03/10/2016 09:53	WG854294
Bromobenzene	U		0.000352	0.00100	1	03/10/2016 09:53	WG854294
Bromodichloromethane	U		0.000380	0.00100	1	03/10/2016 09:53	WG854294
Bromoform	U		0.000469	0.00100	1	03/10/2016 09:53	WG854294
Bromomethane	U		0.000866	0.00500	1	03/10/2016 09:53	WG854294
n-Butylbenzene	U		0.000361	0.00100	1	03/10/2016 09:53	WG854294
sec-Butylbenzene	U		0.000365	0.00100	1	03/10/2016 09:53	WG854294
tert-Butylbenzene	U		0.000399	0.00100	1	03/10/2016 09:53	WG854294
Carbon tetrachloride	U		0.000379	0.00100	1	03/10/2016 09:53	WG854294
Chlorobenzene	U		0.000348	0.00100	1	03/10/2016 09:53	WG854294
Chlorodibromomethane	U		0.000327	0.00100	1	03/10/2016 09:53	WG854294
Chloroethane	U		0.000453	0.00500	1	03/10/2016 09:53	WG854294
2-Chloroethyl vinyl ether	U	J4	0.00301	0.0500	1	03/10/2016 09:53	WG854294
Chloroform	U		0.000324	0.00500	1	03/10/2016 09:53	WG854294
Chloromethane	U		0.000276	0.00250	1	03/10/2016 09:53	WG854294
2-Chlorotoluene	U		0.000375	0.00100	1	03/10/2016 09:53	WG854294
4-Chlorotoluene	U		0.000351	0.00100	1	03/10/2016 09:53	WG854294
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/10/2016 09:53	WG854294
1,2-Dibromoethane	U		0.000381	0.00100	1	03/10/2016 09:53	WG854294
Dibromomethane	U		0.000346	0.00100	1	03/10/2016 09:53	WG854294
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/10/2016 09:53	WG854294
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/10/2016 09:53	WG854294
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/10/2016 09:53	WG854294
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/10/2016 09:53	WG854294
1,1-Dichloroethane	U		0.000259	0.00100	1	03/10/2016 09:53	WG854294
1,2-Dichloroethane	U		0.000361	0.00100	1	03/10/2016 09:53	WG854294
1,1-Dichloroethene	U		0.000398	0.00100	1	03/10/2016 09:53	WG854294
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/10/2016 09:53	WG854294
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/10/2016 09:53	WG854294
1,2-Dichloropropane	U		0.000306	0.00100	1	03/10/2016 09:53	WG854294
1,1-Dichloropropene	U		0.000352	0.00100	1	03/10/2016 09:53	WG854294
1,3-Dichloropropane	U		0.000366	0.00100	1	03/10/2016 09:53	WG854294
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/10/2016 09:53	WG854294
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/10/2016 09:53	WG854294
2,2-Dichloropropane	U		0.000321	0.00100	1	03/10/2016 09:53	WG854294
Di-isopropyl ether	U		0.000320	0.00100	1	03/10/2016 09:53	WG854294
Ethylbenzene	U		0.000384	0.00100	1	03/10/2016 09:53	WG854294
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/10/2016 09:53	WG854294
Isopropylbenzene	U	J4	0.000326	0.00100	1	03/10/2016 09:53	WG854294
p-Isopropyltoluene	U		0.000350	0.00100	1	03/10/2016 09:53	WG854294
2-Butanone (MEK)	U		0.00393	0.0100	1	03/10/2016 09:53	WG854294
Methylene Chloride	U		0.00100	0.00500	1	03/10/2016 09:53	WG854294
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/10/2016 09:53	WG854294
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/10/2016 09:53	WG854294
Naphthalene	0.00424	J	0.00100	0.00500	1	03/10/2016 09:53	WG854294
n-Propylbenzene	U		0.000349	0.00100	1	03/10/2016 09:53	WG854294
Styrene	U		0.000307	0.00100	1	03/10/2016 09:53	WG854294
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/10/2016 09:53	WG854294
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/10/2016 09:53	WG854294
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/10/2016 09:53	WG854294
Tetrachloroethene	U		0.000372	0.00100	1	03/10/2016 09:53	WG854294
Toluene	U		0.000780	0.00500	1	03/10/2016 09:53	WG854294
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/10/2016 09:53	WG854294

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/10/2016 09:53	WG854294
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/10/2016 09:53	WG854294
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/10/2016 09:53	WG854294
Trichloroethene	U		0.000398	0.00100	1	03/10/2016 09:53	WG854294
Trichlorofluoromethane	U		0.00120	0.00500	1	03/10/2016 09:53	WG854294
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/10/2016 09:53	WG854294
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	03/10/2016 09:53	WG854294
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	03/10/2016 09:53	WG854294
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	03/10/2016 09:53	WG854294
Vinyl chloride	U		0.000259	0.00100	1	03/10/2016 09:53	WG854294
Xylenes, Total	U		0.00106	0.00300	1	03/10/2016 09:53	WG854294
(S) Toluene-d8	*102*			*90.0-115*		*03/10/2016 09:53*	WG854294
(S) Dibromofluoromethane	*106*			*79.0-121*		*03/10/2016 09:53*	WG854294
(S) 4-Bromofluorobenzene	*88.5*			*80.1-120*		*03/10/2016 09:53*	WG854294

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.000305		0.0000140	0.0000500	1	03/07/2016 06:20	WG854241
Acenaphthene	0.000327		0.0000100	0.0000500	1	03/07/2016 06:20	WG854241
Acenaphthylene	0.000523		0.0000120	0.0000500	1	03/07/2016 06:20	WG854241
Benzo(a)anthracene	0.0000419	J	0.00000410	0.0000500	1	03/07/2016 06:20	WG854241
Benzo(a)pyrene	0.0000195	J	0.0000116	0.0000500	1	03/07/2016 06:20	WG854241
Benzo(b)fluoranthene	0.0000174	J	0.00000212	0.0000500	1	03/07/2016 06:20	WG854241
Benzo(g,h,i)perylene	0.00000961	J	0.00000227	0.0000500	1	03/07/2016 06:20	WG854241
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	03/07/2016 06:20	WG854241
Chrysene	0.0000369	J	0.0000108	0.0000500	1	03/07/2016 06:20	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 06:20	WG854241
Fluoranthene	0.000176		0.0000157	0.0000500	1	03/07/2016 06:20	WG854241
Fluorene	0.000310		0.00000850	0.0000500	1	03/07/2016 06:20	WG854241
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	03/07/2016 06:20	WG854241
Naphthalene	0.00147		0.0000198	0.000250	1	03/07/2016 06:20	WG854241
Phenanthrene	0.000650		0.00000820	0.0000500	1	03/07/2016 06:20	WG854241
Pyrene	0.000343		0.0000117	0.0000500	1	03/07/2016 06:20	WG854241
1-Methylnaphthalene	0.00147		0.00000821	0.000250	1	03/07/2016 06:20	WG854241
2-Methylnaphthalene	0.0000536	J	0.00000902	0.000250	1	03/07/2016 06:20	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 06:20	WG854241
(S) Nitrobenzene-d5	*82.4*			*33.8-179*		*03/07/2016 06:20*	WG854241
(S) 2-Fluorobiphenyl	*90.0*			*55.5-150*		*03/07/2016 06:20*	WG854241
(S) p-Terphenyl-d14	*76.7*			*46.2-163*		*03/07/2016 06:20*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/10/2016 11:06	WG854294
Acrolein	U		0.00887	0.0500	1	03/10/2016 11:06	WG854294
Acrylonitrile	U		0.00187	0.0100	1	03/10/2016 11:06	WG854294
Benzene	U		0.000331	0.00100	1	03/10/2016 11:06	WG854294
Bromobenzene	U		0.000352	0.00100	1	03/10/2016 11:06	WG854294
Bromodichloromethane	U		0.000380	0.00100	1	03/10/2016 11:06	WG854294
Bromoform	U		0.000469	0.00100	1	03/10/2016 11:06	WG854294
Bromomethane	U		0.000866	0.00500	1	03/10/2016 11:06	WG854294
n-Butylbenzene	U		0.000361	0.00100	1	03/10/2016 11:06	WG854294
sec-Butylbenzene	U		0.000365	0.00100	1	03/10/2016 11:06	WG854294
tert-Butylbenzene	U		0.000399	0.00100	1	03/10/2016 11:06	WG854294
Carbon tetrachloride	U		0.000379	0.00100	1	03/10/2016 11:06	WG854294
Chlorobenzene	U		0.000348	0.00100	1	03/10/2016 11:06	WG854294
Chlorodibromomethane	U		0.000327	0.00100	1	03/10/2016 11:06	WG854294
Chloroethane	U		0.000453	0.00500	1	03/10/2016 11:06	WG854294
2-Chloroethyl vinyl ether	U	J4	0.00301	0.0500	1	03/10/2016 11:06	WG854294
Chloroform	U		0.000324	0.00500	1	03/10/2016 11:06	WG854294
Chloromethane	U		0.000276	0.00250	1	03/10/2016 11:06	WG854294
2-Chlorotoluene	U		0.000375	0.00100	1	03/10/2016 11:06	WG854294
4-Chlorotoluene	U		0.000351	0.00100	1	03/10/2016 11:06	WG854294
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/10/2016 11:06	WG854294
1,2-Dibromoethane	U		0.000381	0.00100	1	03/10/2016 11:06	WG854294
Dibromomethane	U		0.000346	0.00100	1	03/10/2016 11:06	WG854294
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/10/2016 11:06	WG854294
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/10/2016 11:06	WG854294
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/10/2016 11:06	WG854294
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/10/2016 11:06	WG854294
1,1-Dichloroethane	U		0.000259	0.00100	1	03/10/2016 11:06	WG854294
1,2-Dichloroethane	U		0.000361	0.00100	1	03/10/2016 11:06	WG854294
1,1-Dichloroethene	U		0.000398	0.00100	1	03/10/2016 11:06	WG854294
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/10/2016 11:06	WG854294
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/10/2016 11:06	WG854294
1,2-Dichloropropane	U		0.000306	0.00100	1	03/10/2016 11:06	WG854294
1,1-Dichloropropene	U		0.000352	0.00100	1	03/10/2016 11:06	WG854294
1,3-Dichloropropane	U		0.000366	0.00100	1	03/10/2016 11:06	WG854294
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/10/2016 11:06	WG854294
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/10/2016 11:06	WG854294
2,2-Dichloropropane	U		0.000321	0.00100	1	03/10/2016 11:06	WG854294
Di-isopropyl ether	U		0.000320	0.00100	1	03/10/2016 11:06	WG854294
Ethylbenzene	U		0.000384	0.00100	1	03/10/2016 11:06	WG854294
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/10/2016 11:06	WG854294
Isopropylbenzene	U	J4	0.000326	0.00100	1	03/10/2016 11:06	WG854294
p-Isopropyltoluene	U		0.000350	0.00100	1	03/10/2016 11:06	WG854294
2-Butanone (MEK)	U		0.00393	0.0100	1	03/10/2016 11:06	WG854294
Methylene Chloride	U		0.00100	0.00500	1	03/10/2016 11:06	WG854294
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/10/2016 11:06	WG854294
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/10/2016 11:06	WG854294
Naphthalene	U		0.00100	0.00500	1	03/10/2016 11:06	WG854294
n-Propylbenzene	U		0.000349	0.00100	1	03/10/2016 11:06	WG854294
Styrene	U		0.000307	0.00100	1	03/10/2016 11:06	WG854294
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/10/2016 11:06	WG854294
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/10/2016 11:06	WG854294
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/10/2016 11:06	WG854294
Tetrachloroethene	U		0.000372	0.00100	1	03/10/2016 11:06	WG854294
Toluene	U		0.000780	0.00500	1	03/10/2016 11:06	WG854294
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/10/2016 11:06	WG854294

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/10/2016 11:06	WG854294
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/10/2016 11:06	WG854294
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/10/2016 11:06	WG854294
Trichloroethene	U		0.000398	0.00100	1	03/10/2016 11:06	WG854294
Trichlorofluoromethane	U		0.00120	0.00500	1	03/10/2016 11:06	WG854294
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/10/2016 11:06	WG854294
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	03/10/2016 11:06	WG854294
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	03/10/2016 11:06	WG854294
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	03/10/2016 11:06	WG854294
Vinyl chloride	U		0.000259	0.00100	1	03/10/2016 11:06	WG854294
Xylenes, Total	U		0.00106	0.00300	1	03/10/2016 11:06	WG854294
(S) Toluene-d8	*102*			*90.0-115*		*03/10/2016 11:06*	WG854294
(S) Dibromofluoromethane	*105*			*79.0-121*		*03/10/2016 11:06*	WG854294
(S) 4-Bromofluorobenzene	*91.3*			*80.1-120*		*03/10/2016 11:06*	WG854294

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0000234	J	0.0000140	0.0000500	1	03/07/2016 06:41	WG854241
Acenaphthene	U		0.0000100	0.0000500	1	03/07/2016 06:41	WG854241
Acenaphthylene	0.000112		0.0000120	0.0000500	1	03/07/2016 06:41	WG854241
Benzo(a)anthracene	0.0000474	J	0.00000410	0.0000500	1	03/07/2016 06:41	WG854241
Benzo(a)pyrene	0.0000426	J	0.0000116	0.0000500	1	03/07/2016 06:41	WG854241
Benzo(b)fluoranthene	0.0000515		0.00000212	0.0000500	1	03/07/2016 06:41	WG854241
Benzo(g,h,i)perylene	0.0000442	J	0.00000227	0.0000500	1	03/07/2016 06:41	WG854241
Benzo(k)fluoranthene	0.0000148	J	0.0000136	0.0000500	1	03/07/2016 06:41	WG854241
Chrysene	0.0000492	J	0.0000108	0.0000500	1	03/07/2016 06:41	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 06:41	WG854241
Fluoranthene	0.0000548		0.0000157	0.0000500	1	03/07/2016 06:41	WG854241
Fluorene	U		0.00000850	0.0000500	1	03/07/2016 06:41	WG854241
Indeno(1,2,3-cd)pyrene	0.0000304	J	0.0000148	0.0000500	1	03/07/2016 06:41	WG854241
Naphthalene	0.0000680	J	0.0000198	0.000250	1	03/07/2016 06:41	WG854241
Phenanthrene	0.0000399	J	0.00000820	0.0000500	1	03/07/2016 06:41	WG854241
Pyrene	0.000105		0.0000117	0.0000500	1	03/07/2016 06:41	WG854241
1-Methylnaphthalene	0.0000200	J	0.00000821	0.000250	1	03/07/2016 06:41	WG854241
2-Methylnaphthalene	0.0000302	J	0.00000902	0.000250	1	03/07/2016 06:41	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 06:41	WG854241
(S) Nitrobenzene-d5	*81.1*			*33.8-179*		*03/07/2016 06:41*	WG854241
(S) 2-Fluorobiphenyl	*88.7*			*55.5-150*		*03/07/2016 06:41*	WG854241
(S) p-Terphenyl-d14	*70.9*			*46.2-163*		*03/07/2016 06:41*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/10/2016 11:24	WG854294
Acrolein	U		0.00887	0.0500	1	03/10/2016 11:24	WG854294
Acrylonitrile	U		0.00187	0.0100	1	03/10/2016 11:24	WG854294
Benzene	U		0.000331	0.00100	1	03/10/2016 11:24	WG854294
Bromobenzene	U		0.000352	0.00100	1	03/10/2016 11:24	WG854294
Bromodichloromethane	U		0.000380	0.00100	1	03/10/2016 11:24	WG854294
Bromoform	U		0.000469	0.00100	1	03/10/2016 11:24	WG854294
Bromomethane	U		0.000866	0.00500	1	03/10/2016 11:24	WG854294
n-Butylbenzene	U		0.000361	0.00100	1	03/10/2016 11:24	WG854294
sec-Butylbenzene	U		0.000365	0.00100	1	03/10/2016 11:24	WG854294
tert-Butylbenzene	U		0.000399	0.00100	1	03/10/2016 11:24	WG854294
Carbon tetrachloride	U		0.000379	0.00100	1	03/10/2016 11:24	WG854294
Chlorobenzene	U		0.000348	0.00100	1	03/10/2016 11:24	WG854294
Chlorodibromomethane	U		0.000327	0.00100	1	03/10/2016 11:24	WG854294
Chloroethane	U		0.000453	0.00500	1	03/10/2016 11:24	WG854294
2-Chloroethyl vinyl ether	U	J4	0.00301	0.0500	1	03/10/2016 11:24	WG854294
Chloroform	U		0.000324	0.00500	1	03/10/2016 11:24	WG854294
Chloromethane	U		0.000276	0.00250	1	03/10/2016 11:24	WG854294
2-Chlorotoluene	U		0.000375	0.00100	1	03/10/2016 11:24	WG854294
4-Chlorotoluene	U		0.000351	0.00100	1	03/10/2016 11:24	WG854294
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/10/2016 11:24	WG854294
1,2-Dibromoethane	U		0.000381	0.00100	1	03/10/2016 11:24	WG854294
Dibromomethane	U		0.000346	0.00100	1	03/10/2016 11:24	WG854294
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/10/2016 11:24	WG854294
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/10/2016 11:24	WG854294
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/10/2016 11:24	WG854294
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/10/2016 11:24	WG854294
1,1-Dichloroethane	U		0.000259	0.00100	1	03/10/2016 11:24	WG854294
1,2-Dichloroethane	U		0.000361	0.00100	1	03/10/2016 11:24	WG854294
1,1-Dichloroethene	U		0.000398	0.00100	1	03/10/2016 11:24	WG854294
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/10/2016 11:24	WG854294
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/10/2016 11:24	WG854294
1,2-Dichloropropane	U		0.000306	0.00100	1	03/10/2016 11:24	WG854294
1,1-Dichloropropene	U		0.000352	0.00100	1	03/10/2016 11:24	WG854294
1,3-Dichloropropane	U		0.000366	0.00100	1	03/10/2016 11:24	WG854294
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/10/2016 11:24	WG854294
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/10/2016 11:24	WG854294
2,2-Dichloropropane	U		0.000321	0.00100	1	03/10/2016 11:24	WG854294
Di-isopropyl ether	U		0.000320	0.00100	1	03/10/2016 11:24	WG854294
Ethylbenzene	0.000686	J	0.000384	0.00100	1	03/10/2016 11:24	WG854294
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/10/2016 11:24	WG854294
Isopropylbenzene	0.00137	J4	0.000326	0.00100	1	03/10/2016 11:24	WG854294
p-Isopropyltoluene	U		0.000350	0.00100	1	03/10/2016 11:24	WG854294
2-Butanone (MEK)	U		0.00393	0.0100	1	03/10/2016 11:24	WG854294
Methylene Chloride	U		0.00100	0.00500	1	03/10/2016 11:24	WG854294
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/10/2016 11:24	WG854294
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/10/2016 11:24	WG854294
Naphthalene	0.148		0.00100	0.00500	1	03/10/2016 11:24	WG854294
n-Propylbenzene	0.00204		0.000349	0.00100	1	03/10/2016 11:24	WG854294
Styrene	U		0.000307	0.00100	1	03/10/2016 11:24	WG854294
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/10/2016 11:24	WG854294
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/10/2016 11:24	WG854294
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/10/2016 11:24	WG854294
Tetrachloroethene	U		0.000372	0.00100	1	03/10/2016 11:24	WG854294
Toluene	U		0.000780	0.00500	1	03/10/2016 11:24	WG854294
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/10/2016 11:24	WG854294

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/10/2016 11:24	WG854294
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/10/2016 11:24	WG854294
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/10/2016 11:24	WG854294
Trichloroethene	U		0.000398	0.00100	1	03/10/2016 11:24	WG854294
Trichlorofluoromethane	U		0.00120	0.00500	1	03/10/2016 11:24	WG854294
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/10/2016 11:24	WG854294
1,2,4-Trimethylbenzene	0.00840		0.000373	0.00100	1	03/10/2016 11:24	WG854294
1,2,3-Trimethylbenzene	0.00292		0.000321	0.00100	1	03/10/2016 11:24	WG854294
1,3,5-Trimethylbenzene	0.00101		0.000387	0.00100	1	03/10/2016 11:24	WG854294
Vinyl chloride	U		0.000259	0.00100	1	03/10/2016 11:24	WG854294
Xylenes, Total	0.00213	J	0.00106	0.00300	1	03/10/2016 11:24	WG854294
(S) Toluene-d8	*104*			*90.0-115*		*03/10/2016 11:24*	WG854294
(S) Dibromofluoromethane	*105*			*79.0-121*		*03/10/2016 11:24*	WG854294
(S) 4-Bromofluorobenzene	*96.7*			*80.1-120*		*03/10/2016 11:24*	WG854294

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.0376		0.0000140	0.0000500	1	03/07/2016 07:03	WG854241
Acenaphthene	0.0186		0.0000100	0.0000500	1	03/07/2016 07:03	WG854241
Acenaphthylene	0.0475		0.0000120	0.0000500	1	03/07/2016 07:03	WG854241
Benzo(a)anthracene	0.0165		0.00000410	0.0000500	1	03/07/2016 07:03	WG854241
Benzo(a)pyrene	0.00963		0.0000116	0.0000500	1	03/07/2016 07:03	WG854241
Benzo(b)fluoranthene	0.00889		0.00000212	0.0000500	1	03/07/2016 07:03	WG854241
Benzo(g,h,i)perylene	0.00249		0.00000227	0.0000500	1	03/07/2016 07:03	WG854241
Benzo(k)fluoranthene	0.000780		0.0000136	0.0000500	1	03/07/2016 07:03	WG854241
Chrysene	0.0113		0.0000108	0.0000500	1	03/07/2016 07:03	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 07:03	WG854241
Fluoranthene	0.0512		0.0000157	0.0000500	1	03/07/2016 07:03	WG854241
Fluorene	0.0225		0.00000850	0.0000500	1	03/07/2016 07:03	WG854241
Indeno(1,2,3-cd)pyrene	0.00219		0.0000148	0.0000500	1	03/07/2016 07:03	WG854241
Naphthalene	0.0976		0.000396	0.00500	20	03/07/2016 19:29	WG854241
Phenanthrene	0.118		0.000164	0.00100	20	03/07/2016 19:29	WG854241
Pyrene	0.0850		0.0000117	0.0000500	1	03/07/2016 07:03	WG854241
1-Methylnaphthalene	0.0752		0.00000821	0.000250	1	03/07/2016 07:03	WG854241
2-Methylnaphthalene	0.0421		0.00000902	0.000250	1	03/07/2016 07:03	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 07:03	WG854241
(S) Nitrobenzene-d5	*79.5*			*33.8-179*		*03/07/2016 07:03*	WG854241
(S) 2-Fluorobiphenyl	*89.6*			*55.5-150*		*03/07/2016 07:03*	WG854241
(S) p-Terphenyl-d14	*80.4*			*46.2-163*		*03/07/2016 07:03*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/10/2016 11:41	WG854294
Acrolein	U		0.00887	0.0500	1	03/10/2016 11:41	WG854294
Acrylonitrile	U		0.00187	0.0100	1	03/10/2016 11:41	WG854294
Benzene	0.0352		0.000331	0.00100	1	03/10/2016 11:41	WG854294
Bromobenzene	U		0.000352	0.00100	1	03/10/2016 11:41	WG854294
Bromodichloromethane	U		0.000380	0.00100	1	03/10/2016 11:41	WG854294
Bromoform	U		0.000469	0.00100	1	03/10/2016 11:41	WG854294
Bromomethane	U		0.000866	0.00500	1	03/10/2016 11:41	WG854294
n-Butylbenzene	U		0.000361	0.00100	1	03/10/2016 11:41	WG854294
sec-Butylbenzene	U		0.000365	0.00100	1	03/10/2016 11:41	WG854294
tert-Butylbenzene	U		0.000399	0.00100	1	03/10/2016 11:41	WG854294
Carbon tetrachloride	U		0.000379	0.00100	1	03/10/2016 11:41	WG854294
Chlorobenzene	U		0.000348	0.00100	1	03/10/2016 11:41	WG854294
Chlorodibromomethane	U		0.000327	0.00100	1	03/10/2016 11:41	WG854294
Chloroethane	U		0.000453	0.00500	1	03/10/2016 11:41	WG854294
2-Chloroethyl vinyl ether	U	J4	0.00301	0.0500	1	03/10/2016 11:41	WG854294
Chloroform	U		0.000324	0.00500	1	03/10/2016 11:41	WG854294
Chloromethane	U		0.000276	0.00250	1	03/10/2016 11:41	WG854294
2-Chlorotoluene	U		0.000375	0.00100	1	03/10/2016 11:41	WG854294
4-Chlorotoluene	U		0.000351	0.00100	1	03/10/2016 11:41	WG854294
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/10/2016 11:41	WG854294
1,2-Dibromoethane	U		0.000381	0.00100	1	03/10/2016 11:41	WG854294
Dibromomethane	U		0.000346	0.00100	1	03/10/2016 11:41	WG854294
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/10/2016 11:41	WG854294
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/10/2016 11:41	WG854294
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/10/2016 11:41	WG854294
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/10/2016 11:41	WG854294
1,1-Dichloroethane	U		0.000259	0.00100	1	03/10/2016 11:41	WG854294
1,2-Dichloroethane	U		0.000361	0.00100	1	03/10/2016 11:41	WG854294
1,1-Dichloroethene	U		0.000398	0.00100	1	03/10/2016 11:41	WG854294
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/10/2016 11:41	WG854294
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/10/2016 11:41	WG854294
1,2-Dichloropropane	U		0.000306	0.00100	1	03/10/2016 11:41	WG854294
1,1-Dichloropropene	U		0.000352	0.00100	1	03/10/2016 11:41	WG854294
1,3-Dichloropropane	U		0.000366	0.00100	1	03/10/2016 11:41	WG854294
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/10/2016 11:41	WG854294
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/10/2016 11:41	WG854294
2,2-Dichloropropane	U		0.000321	0.00100	1	03/10/2016 11:41	WG854294
Di-isopropyl ether	U		0.000320	0.00100	1	03/10/2016 11:41	WG854294
Ethylbenzene	0.00168		0.000384	0.00100	1	03/10/2016 11:41	WG854294
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/10/2016 11:41	WG854294
Isopropylbenzene	U	J4	0.000326	0.00100	1	03/10/2016 11:41	WG854294
p-Isopropyltoluene	U		0.000350	0.00100	1	03/10/2016 11:41	WG854294
2-Butanone (MEK)	U		0.00393	0.0100	1	03/10/2016 11:41	WG854294
Methylene Chloride	U		0.00100	0.00500	1	03/10/2016 11:41	WG854294
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/10/2016 11:41	WG854294
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/10/2016 11:41	WG854294
Naphthalene	0.0291		0.00100	0.00500	1	03/10/2016 11:41	WG854294
n-Propylbenzene	U		0.000349	0.00100	1	03/10/2016 11:41	WG854294
Styrene	U		0.000307	0.00100	1	03/10/2016 11:41	WG854294
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/10/2016 11:41	WG854294
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/10/2016 11:41	WG854294
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/10/2016 11:41	WG854294
Tetrachloroethene	U		0.000372	0.00100	1	03/10/2016 11:41	WG854294
Toluene	0.00271	J	0.000780	0.00500	1	03/10/2016 11:41	WG854294
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/10/2016 11:41	WG854294

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/10/2016 11:41	WG854294
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/10/2016 11:41	WG854294
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/10/2016 11:41	WG854294
Trichloroethene	U		0.000398	0.00100	1	03/10/2016 11:41	WG854294
Trichlorofluoromethane	U		0.00120	0.00500	1	03/10/2016 11:41	WG854294
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/10/2016 11:41	WG854294
1,2,4-Trimethylbenzene	0.00274		0.000373	0.00100	1	03/10/2016 11:41	WG854294
1,2,3-Trimethylbenzene	0.00144		0.000321	0.00100	1	03/10/2016 11:41	WG854294
1,3,5-Trimethylbenzene	0.00164		0.000387	0.00100	1	03/10/2016 11:41	WG854294
Vinyl chloride	U		0.000259	0.00100	1	03/10/2016 11:41	WG854294
Xylenes, Total	0.00179	J	0.00106	0.00300	1	03/10/2016 11:41	WG854294
(S) Toluene-d8	*101*			*90.0-115*		*03/10/2016 11:41*	WG854294
(S) Dibromofluoromethane	*105*			*79.0-121*		*03/10/2016 11:41*	WG854294
(S) 4-Bromofluorobenzene	*90.1*			*80.1-120*		*03/10/2016 11:41*	WG854294

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00678		0.0000140	0.0000500	1	03/07/2016 07:25	WG854241
Acenaphthene	0.0529		0.0000100	0.0000500	1	03/07/2016 07:25	WG854241
Acenaphthylene	0.0162		0.0000120	0.0000500	1	03/07/2016 07:25	WG854241
Benzo(a)anthracene	0.00509		0.00000410	0.0000500	1	03/07/2016 07:25	WG854241
Benzo(a)pyrene	0.00372		0.0000116	0.0000500	1	03/07/2016 07:25	WG854241
Benzo(b)fluoranthene	0.00256		0.00000212	0.0000500	1	03/07/2016 07:25	WG854241
Benzo(g,h,i)perylene	0.00144		0.00000227	0.0000500	1	03/07/2016 07:25	WG854241
Benzo(k)fluoranthene	0.00101		0.0000136	0.0000500	1	03/07/2016 07:25	WG854241
Chrysene	0.00406		0.0000108	0.0000500	1	03/07/2016 07:25	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 07:25	WG854241
Fluoranthene	0.0100		0.0000157	0.0000500	1	03/07/2016 07:25	WG854241
Fluorene	0.0104		0.00000850	0.0000500	1	03/07/2016 07:25	WG854241
Indeno(1,2,3-cd)pyrene	0.00111		0.0000148	0.0000500	1	03/07/2016 07:25	WG854241
Naphthalene	0.0103		0.0000198	0.000250	1	03/07/2016 07:25	WG854241
Phenanthrene	0.00806		0.00000820	0.0000500	1	03/07/2016 07:25	WG854241
Pyrene	0.0163		0.0000117	0.0000500	1	03/07/2016 07:25	WG854241
1-Methylnaphthalene	0.0573		0.00000821	0.000250	1	03/07/2016 07:25	WG854241
2-Methylnaphthalene	0.00131		0.00000902	0.000250	1	03/07/2016 07:25	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 07:25	WG854241
(S) Nitrobenzene-d5	*87.7*			*33.8-179*		*03/07/2016 07:25*	WG854241
(S) 2-Fluorobiphenyl	*79.2*			*55.5-150*		*03/07/2016 07:25*	WG854241
(S) p-Terphenyl-d14	*74.7*			*46.2-163*		*03/07/2016 07:25*	WG854241

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	03/10/2016 11:59	WG854294
Acrolein	U		0.00887	0.0500	1	03/10/2016 11:59	WG854294
Acrylonitrile	U		0.00187	0.0100	1	03/10/2016 11:59	WG854294
Benzene	0.0357		0.000331	0.00100	1	03/10/2016 11:59	WG854294
Bromobenzene	U		0.000352	0.00100	1	03/10/2016 11:59	WG854294
Bromodichloromethane	U		0.000380	0.00100	1	03/10/2016 11:59	WG854294
Bromoform	U		0.000469	0.00100	1	03/10/2016 11:59	WG854294
Bromomethane	U		0.000866	0.00500	1	03/10/2016 11:59	WG854294
n-Butylbenzene	0.000664	J	0.000361	0.00100	1	03/10/2016 11:59	WG854294
sec-Butylbenzene	U		0.000365	0.00100	1	03/10/2016 11:59	WG854294
tert-Butylbenzene	U		0.000399	0.00100	1	03/10/2016 11:59	WG854294
Carbon tetrachloride	U		0.000379	0.00100	1	03/10/2016 11:59	WG854294
Chlorobenzene	U		0.000348	0.00100	1	03/10/2016 11:59	WG854294
Chlorodibromomethane	U		0.000327	0.00100	1	03/10/2016 11:59	WG854294
Chloroethane	U		0.000453	0.00500	1	03/10/2016 11:59	WG854294
2-Chloroethyl vinyl ether	U	J4	0.00301	0.0500	1	03/10/2016 11:59	WG854294
Chloroform	U		0.000324	0.00500	1	03/10/2016 11:59	WG854294
Chloromethane	U		0.000276	0.00250	1	03/10/2016 11:59	WG854294
2-Chlorotoluene	U		0.000375	0.00100	1	03/10/2016 11:59	WG854294
4-Chlorotoluene	U		0.000351	0.00100	1	03/10/2016 11:59	WG854294
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	03/10/2016 11:59	WG854294
1,2-Dibromoethane	U		0.000381	0.00100	1	03/10/2016 11:59	WG854294
Dibromomethane	U		0.000346	0.00100	1	03/10/2016 11:59	WG854294
1,2-Dichlorobenzene	U		0.000349	0.00100	1	03/10/2016 11:59	WG854294
1,3-Dichlorobenzene	U		0.000220	0.00100	1	03/10/2016 11:59	WG854294
1,4-Dichlorobenzene	U		0.000274	0.00100	1	03/10/2016 11:59	WG854294
Dichlorodifluoromethane	U		0.000551	0.00500	1	03/10/2016 11:59	WG854294
1,1-Dichloroethane	U		0.000259	0.00100	1	03/10/2016 11:59	WG854294
1,2-Dichloroethane	U		0.000361	0.00100	1	03/10/2016 11:59	WG854294
1,1-Dichloroethene	U		0.000398	0.00100	1	03/10/2016 11:59	WG854294
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	03/10/2016 11:59	WG854294
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	03/10/2016 11:59	WG854294
1,2-Dichloropropane	U		0.000306	0.00100	1	03/10/2016 11:59	WG854294
1,1-Dichloropropene	U		0.000352	0.00100	1	03/10/2016 11:59	WG854294
1,3-Dichloropropane	U		0.000366	0.00100	1	03/10/2016 11:59	WG854294
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	03/10/2016 11:59	WG854294
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	03/10/2016 11:59	WG854294
2,2-Dichloropropane	U		0.000321	0.00100	1	03/10/2016 11:59	WG854294
Di-isopropyl ether	U		0.000320	0.00100	1	03/10/2016 11:59	WG854294
Ethylbenzene	0.0160		0.000384	0.00100	1	03/10/2016 11:59	WG854294
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	03/10/2016 11:59	WG854294
Isopropylbenzene	0.00984	J4	0.000326	0.00100	1	03/10/2016 11:59	WG854294
p-Isopropyltoluene	U		0.000350	0.00100	1	03/10/2016 11:59	WG854294
2-Butanone (MEK)	U		0.00393	0.0100	1	03/10/2016 11:59	WG854294
Methylene Chloride	U		0.00100	0.00500	1	03/10/2016 11:59	WG854294
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	03/10/2016 11:59	WG854294
Methyl tert-butyl ether	U		0.000367	0.00100	1	03/10/2016 11:59	WG854294
Naphthalene	0.0162		0.00100	0.00500	1	03/10/2016 11:59	WG854294
n-Propylbenzene	0.00106		0.000349	0.00100	1	03/10/2016 11:59	WG854294
Styrene	U		0.000307	0.00100	1	03/10/2016 11:59	WG854294
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	03/10/2016 11:59	WG854294
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	03/10/2016 11:59	WG854294
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	03/10/2016 11:59	WG854294
Tetrachloroethene	U		0.000372	0.00100	1	03/10/2016 11:59	WG854294
Toluene	0.00115	J	0.000780	0.00500	1	03/10/2016 11:59	WG854294
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	03/10/2016 11:59	WG854294

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	03/10/2016 11:59	WG854294
1,1,1-Trichloroethane	U		0.000319	0.00100	1	03/10/2016 11:59	WG854294
1,1,2-Trichloroethane	U		0.000383	0.00100	1	03/10/2016 11:59	WG854294
Trichloroethene	U		0.000398	0.00100	1	03/10/2016 11:59	WG854294
Trichlorofluoromethane	U		0.00120	0.00500	1	03/10/2016 11:59	WG854294
1,2,3-Trichloropropane	U		0.000807	0.00250	1	03/10/2016 11:59	WG854294
1,2,4-Trimethylbenzene	0.0114		0.000373	0.00100	1	03/10/2016 11:59	WG854294
1,2,3-Trimethylbenzene	0.0197		0.000321	0.00100	1	03/10/2016 11:59	WG854294
1,3,5-Trimethylbenzene	0.00107		0.000387	0.00100	1	03/10/2016 11:59	WG854294
Vinyl chloride	U		0.000259	0.00100	1	03/10/2016 11:59	WG854294
Xylenes, Total	0.0337		0.00106	0.00300	1	03/10/2016 11:59	WG854294
(S) Toluene-d8	*103*			*90.0-115*		*03/10/2016 11:59*	WG854294
(S) Dibromofluoromethane	*104*			*79.0-121*		*03/10/2016 11:59*	WG854294
(S) 4-Bromofluorobenzene	*94.6*			*80.1-120*		*03/10/2016 11:59*	WG854294

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Anthracene	0.00907		0.0000140	0.0000500	1	03/07/2016 07:47	WG854241
Acenaphthene	0.117		0.000200	0.00100	20	03/07/2016 19:51	WG854241
Acenaphthylene	0.0341		0.0000120	0.0000500	1	03/07/2016 07:47	WG854241
Benzo(a)anthracene	0.000150		0.00000410	0.0000500	1	03/07/2016 07:47	WG854241
Benzo(a)pyrene	U		0.0000116	0.0000500	1	03/07/2016 07:47	WG854241
Benzo(b)fluoranthene	0.00000983	J	0.00000212	0.0000500	1	03/07/2016 07:47	WG854241
Benzo(g,h,i)perylene	0.00000703	J	0.00000227	0.0000500	1	03/07/2016 07:47	WG854241
Benzo(k)fluoranthene	U		0.0000136	0.0000500	1	03/07/2016 07:47	WG854241
Chrysene	0.0000906		0.0000108	0.0000500	1	03/07/2016 07:47	WG854241
Dibenz(a,h)anthracene	U		0.00000396	0.0000500	1	03/07/2016 07:47	WG854241
Fluoranthene	0.00300		0.0000157	0.0000500	1	03/07/2016 07:47	WG854241
Fluorene	0.00304		0.00000850	0.0000500	1	03/07/2016 07:47	WG854241
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500	1	03/07/2016 07:47	WG854241
Naphthalene	0.0106		0.0000198	0.000250	1	03/07/2016 07:47	WG854241
Phenanthrene	0.0415		0.00000820	0.0000500	1	03/07/2016 07:47	WG854241
Pyrene	0.00491		0.0000117	0.0000500	1	03/07/2016 07:47	WG854241
1-Methylnaphthalene	0.327		0.000164	0.00500	20	03/07/2016 19:51	WG854241
2-Methylnaphthalene	0.000189	J	0.00000902	0.000250	1	03/07/2016 07:47	WG854241
2-Chloronaphthalene	U		0.00000647	0.000250	1	03/07/2016 07:47	WG854241
(S) Nitrobenzene-d5	*86.5*			*33.8-179*		*03/07/2016 07:47*	WG854241
(S) 2-Fluorobiphenyl	*83.7*			*55.5-150*		*03/07/2016 07:47*	WG854241
(S) p-Terphenyl-d14	*74.4*			*46.2-163*		*03/07/2016 07:47*	WG854241

Method Blank (MB)

(MB) 03/09/16 08:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100

Method Blank (MB)

(MB) 03/09/16 08:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*110*			*90.0-115*
(S) Dibromofluoromethane	*109*			*79.0-121*
(S) 4-Bromofluorobenzene	*104*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/09/16 06:02 • (LCSD) 03/09/16 06:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0754	0.0744	60.4	59.6	28.7-175			1.35	20.9
Acrolein	0.125	0.0994	0.0953	79.5	76.3	40.4-172			4.14	20
Acrylonitrile	0.125	0.121	0.116	96.9	92.9	58.2-145			4.19	20
Benzene	0.0250	0.0234	0.0234	93.5	93.4	73.0-122			0.0500	20
Bromobenzene	0.0250	0.0230	0.0227	92.1	90.6	81.5-115			1.65	20
Bromodichloromethane	0.0250	0.0229	0.0229	91.7	91.7	75.5-121			0.0500	20
Bromoform	0.0250	0.0214	0.0213	85.7	85.1	71.5-131			0.680	20
Bromomethane	0.0250	0.0465	0.0461	186	185	22.4-187			0.820	20
n-Butylbenzene	0.0250	0.0248	0.0240	99.4	96.2	75.9-134			3.25	20
sec-Butylbenzene	0.0250	0.0241	0.0241	96.5	96.4	80.6-126			0.0800	20
tert-Butylbenzene	0.0250	0.0239	0.0239	95.6	95.7	79.3-127			0.160	20
Carbon tetrachloride	0.0250	0.0240	0.0238	95.8	95.1	70.9-129			0.800	20
Chlorobenzene	0.0250	0.0239	0.0236	95.5	94.4	79.7-122			1.14	20
Chlorodibromomethane	0.0250	0.0242	0.0245	96.8	98.2	78.2-124			1.37	20
Chloroethane	0.0250	0.0301	0.0303	120	121	41.2-153			0.940	20
2-Chloroethyl vinyl ether	0.125	0.196	0.191	157	153	23.4-162			2.49	23.5
Chloroform	0.0250	0.0246	0.0242	98.3	96.6	73.2-125			1.75	20
Chloromethane	0.0250	0.0216	0.0215	86.2	85.8	55.8-134			0.480	20
2-Chlorotoluene	0.0250	0.0242	0.0229	96.9	91.8	76.4-125			5.44	20
4-Chlorotoluene	0.0250	0.0234	0.0234	93.6	93.7	81.5-121			0.0800	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0247	0.0239	98.9	95.7	64.8-131			3.35	20
1,2-Dibromoethane	0.0250	0.0251	0.0252	100	101	79.8-122			0.280	20
Dibromomethane	0.0250	0.0243	0.0246	97.1	98.3	79.5-118			1.21	20
1,2-Dichlorobenzene	0.0250	0.0245	0.0247	97.9	98.8	84.7-118			0.920	20
1,3-Dichlorobenzene	0.0250	0.0238	0.0236	95.1	94.5	77.6-127			0.730	20
1,4-Dichlorobenzene	0.0250	0.0227	0.0228	91.0	91.2	82.2-114			0.270	20
Dichlorodifluoromethane	0.0250	0.0230	0.0231	92.1	92.6	56.0-134			0.480	20
1,1-Dichloroethane	0.0250	0.0237	0.0239	94.9	95.7	71.7-127			0.780	20
1,2-Dichloroethane	0.0250	0.0235	0.0233	93.8	93.3	65.3-126			0.490	20
1,1-Dichloroethene	0.0250	0.0246	0.0244	98.4	97.7	59.9-137			0.670	20
cis-1,2-Dichloroethene	0.0250	0.0245	0.0246	98.1	98.4	77.3-122			0.290	20
trans-1,2-Dichloroethene	0.0250	0.0240	0.0245	95.8	98.1	72.6-125			2.38	20
1,2-Dichloropropane	0.0250	0.0224	0.0223	89.8	89.3	77.4-125			0.510	20
1,1-Dichloropropene	0.0250	0.0242	0.0244	96.7	97.4	72.5-127			0.770	20
1,3-Dichloropropane	0.0250	0.0238	0.0237	95.1	94.9	80.6-115			0.220	20
cis-1,3-Dichloropropene	0.0250	0.0247	0.0245	98.9	98.0	77.7-124			0.900	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/09/16 06:02 • (LCSD) 03/09/16 06:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0251	0.0255	100	102	73.5-127			1.53	20
2,2-Dichloropropane	0.0250	0.0245	0.0239	98.1	95.5	61.3-134			2.60	20
Di-isopropyl ether	0.0250	0.0236	0.0231	94.4	92.3	65.1-135			2.30	20
Ethylbenzene	0.0250	0.0244	0.0235	97.7	94.1	80.9-121			3.72	20
Hexachloro-1,3-butadiene	0.0250	0.0231	0.0182	92.3	72.8	73.7-133		J3 J4	23.7	20
Isopropylbenzene	0.0250	0.0237	0.0235	94.7	94.2	81.6-124			0.540	20
p-Isopropyltoluene	0.0250	0.0248	0.0246	99.1	98.5	77.6-129			0.580	20
2-Butanone (MEK)	0.125	0.0938	0.0945	75.1	75.6	46.4-155			0.730	20
Methylene Chloride	0.0250	0.0219	0.0216	87.5	86.4	69.5-120			1.28	20
4-Methyl-2-pentanone (MIBK)	0.125	0.112	0.112	89.7	89.8	63.3-138			0.160	20
Methyl tert-butyl ether	0.0250	0.0237	0.0237	95.0	94.9	70.1-125			0.0400	20
Naphthalene	0.0250	0.0256	0.0253	102	101	69.7-134			1.04	20
n-Propylbenzene	0.0250	0.0245	0.0248	97.9	99.1	81.9-122			1.22	20
Styrene	0.0250	0.0251	0.0249	100	99.8	79.9-124			0.530	20
1,1,1,2-Tetrachloroethane	0.0250	0.0259	0.0249	104	99.6	78.5-125			3.97	20
1,1,2,2-Tetrachloroethane	0.0250	0.0228	0.0226	91.3	90.5	79.3-123			0.940	20
Tetrachloroethene	0.0250	0.0235	0.0229	94.2	91.5	73.5-130			2.89	20
Toluene	0.0250	0.0232	0.0227	93.0	90.6	77.9-116			2.57	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0249	0.0249	99.6	99.5	62.0-141			0.180	20
1,2,3-Trichlorobenzene	0.0250	0.0255	0.0255	102	102	75.7-134			0.0600	20
1,2,4-Trichlorobenzene	0.0250	0.0258	0.0258	103	103	76.1-136			0.110	20
1,1,1-Trichloroethane	0.0250	0.0232	0.0229	92.6	91.7	71.1-129			0.930	20
1,1,2-Trichloroethane	0.0250	0.0244	0.0236	97.4	94.6	81.6-120			2.99	20
Trichloroethene	0.0250	0.0233	0.0232	93.2	92.9	79.5-121			0.390	20
Trichlorofluoromethane	0.0250	0.0238	0.0284	95.1	113	49.1-157			17.7	20
1,2,3-Trichloropropane	0.0250	0.0247	0.0238	99.0	95.0	74.9-124			4.06	20
1,2,3-Trimethylbenzene	0.0250	0.0239	0.0239	95.7	95.5	79.9-118			0.150	20
1,2,4-Trimethylbenzene	0.0250	0.0238	0.0236	95.0	94.3	79.0-122			0.800	20
1,3,5-Trimethylbenzene	0.0250	0.0236	0.0229	94.4	91.7	81.0-123			2.85	20
Vinyl chloride	0.0250	0.0248	0.0240	99.3	95.8	61.5-134			3.60	20
Xylenes, Total	0.0750	0.0707	0.0700	94.3	93.4	79.2-122			0.940	20
(S) Toluene-d8				*106*	*106*	*90.0-115*				
(S) Dibromofluoromethane				*106*	*105*	*79.0-121*				
(S) 4-Bromofluorobenzene				*102*	*104*	*80.1-120*				

L821297-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/09/16 11:46 • (MS) 03/09/16 09:44 • (MSD) 03/09/16 10:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.000573	0.0526	0.0561	41.6	44.4	1	25.0-156			6.34	21.5
Acrolein	0.125	ND	0.109	0.115	87.0	91.7	1	34.0-194			5.26	21.5
Acrylonitrile	0.125	ND	0.130	0.139	104	111	1	55.9-161			6.62	20
Benzene	0.0250	ND	0.0245	0.0253	98.0	101	1	58.6-133			3.37	20
Bromobenzene	0.0250	ND	0.0236	0.0245	94.2	97.9	1	70.6-125			3.80	20
Bromodichloromethane	0.0250	ND	0.0229	0.0252	91.7	101	1	69.2-127			9.23	20
Bromoform	0.0250	ND	0.0211	0.0219	84.5	87.5	1	66.3-140			3.47	20
Bromomethane	0.0250	ND	0.0490	0.0511	196	204	1	16.6-183	J5	J5	4.12	20.5
n-Butylbenzene	0.0250	ND	0.0262	0.0273	105	109	1	64.8-145			4.00	20
sec-Butylbenzene	0.0250	ND	0.0246	0.0268	98.6	107	1	66.8-139			8.46	20
tert-Butylbenzene	0.0250	ND	0.0250	0.0269	99.9	108	1	67.1-138			7.61	20
Carbon tetrachloride	0.0250	ND	0.0254	0.0273	102	109	1	60.6-139			7.39	20
Chlorobenzene	0.0250	ND	0.0242	0.0256	96.7	102	1	70.1-130			5.77	20
Chlorodibromomethane	0.0250	ND	0.0242	0.0266	96.9	107	1	71.6-132			9.53	20
Chloroethane	0.0250	ND	0.0243	0.0267	97.3	107	1	33.3-155			9.12	20
2-Chloroethyl vinyl ether	0.125	ND	0.00511	ND	4.09	1.05	1	5.00-149	J6	J3 J6	118	40
Chloroform	0.0250	ND	0.0258	0.0274	103	110	1	66.1-133			5.81	20
Chloromethane	0.0250	ND	0.0230	0.0244	91.9	97.6	1	40.7-139			6.01	20
2-Chlorotoluene	0.0250	ND	0.0247	0.0258	98.6	103	1	66.9-134			4.64	20
4-Chlorotoluene	0.0250	ND	0.0247	0.0255	98.7	102	1	66.8-134			3.46	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0260	0.0271	104	109	1	63.9-142			4.38	20.2
1,2-Dibromoethane	0.0250	ND	0.0251	0.0263	100	105	1	73.8-131			4.63	20
Dibromomethane	0.0250	ND	0.0253	0.0267	101	107	1	72.8-127			5.37	20
1,2-Dichlorobenzene	0.0250	ND	0.0252	0.0253	101	101	1	77.4-127			0.290	20
1,3-Dichlorobenzene	0.0250	ND	0.0239	0.0257	95.7	103	1	67.9-136			7.18	20
1,4-Dichlorobenzene	0.0250	ND	0.0231	0.0244	92.2	97.4	1	74.4-123			5.50	20
Dichlorodifluoromethane	0.0250	ND	0.0251	0.0264	100	106	1	42.2-146			5.11	20
1,1-Dichloroethane	0.0250	ND	0.0249	0.0262	99.7	105	1	64.0-134			5.17	20
1,2-Dichloroethane	0.0250	ND	0.0244	0.0255	97.5	102	1	60.7-132			4.65	20
1,1-Dichloroethene	0.0250	ND	0.0262	0.0278	105	111	1	48.8-144			5.81	20
cis-1,2-Dichloroethene	0.0250	ND	0.0253	0.0271	101	108	1	60.6-136			6.83	20
trans-1,2-Dichloroethene	0.0250	ND	0.0255	0.0271	102	108	1	61.0-132			5.82	20
1,2-Dichloropropane	0.0250	ND	0.0223	0.0242	89.0	96.8	1	69.7-130			8.37	20
1,1-Dichloropropene	0.0250	ND	0.0262	0.0278	105	111	1	61.5-136			5.94	20
1,3-Dichloropropane	0.0250	ND	0.0241	0.0250	96.3	100	1	74.3-123			3.83	20
cis-1,3-Dichloropropene	0.0250	ND	0.0247	0.0259	98.9	103	1	71.1-129			4.49	20

L821297-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/09/16 11:46 • (MS) 03/09/16 09:44 • (MSD) 03/09/16 10:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0252	0.0269	101	108	1	66.3-136			6.61	20
2,2-Dichloropropane	0.0250	ND	0.0268	0.0279	107	111	1	54.9-142			3.86	20
Di-isopropyl ether	0.0250	ND	0.0240	0.0248	95.9	99.0	1	59.9-140			3.18	20
Ethylbenzene	0.0250	ND	0.0243	0.0259	97.4	104	1	62.7-136			6.15	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0226	0.0255	90.5	102	1	61.1-144			11.8	20.1
Isopropylbenzene	0.0250	ND	0.0247	0.0261	99.0	104	1	67.4-136			5.23	20
p-Isopropyltoluene	0.0250	ND	0.0260	0.0280	104	112	1	62.8-143			7.51	20
2-Butanone (MEK)	0.125	ND	0.0837	0.0864	67.0	69.1	1	45.0-156			3.17	20.8
Methylene Chloride	0.0250	ND	0.0230	0.0238	91.8	95.1	1	61.5-125			3.46	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.114	0.121	91.4	96.6	1	60.7-150			5.58	20
Methyl tert-butyl ether	0.0250	ND	0.0243	0.0254	97.1	102	1	61.4-136			4.46	20
Naphthalene	0.0250	ND	0.0277	0.0265	111	106	1	61.8-143			4.50	20
n-Propylbenzene	0.0250	ND	0.0252	0.0275	101	110	1	63.2-139			8.77	20
Styrene	0.0250	ND	0.0251	0.0263	100	105	1	68.2-133			4.65	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0257	0.0274	103	109	1	70.5-132			6.42	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0240	0.0257	96.2	103	1	64.9-145			6.66	20
Tetrachloroethene	0.0250	ND	0.0243	0.0255	97.2	102	1	57.4-141			4.84	20
Toluene	0.0250	ND	0.0233	0.0250	93.3	100	1	67.8-124			6.91	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0267	0.0284	107	114	1	53.7-150			6.44	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0257	0.0262	103	105	1	65.7-143			1.90	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0269	0.0276	107	111	1	67.0-146			2.80	20
1,1,1-Trichloroethane	0.0250	ND	0.0245	0.0265	98.0	106	1	58.7-134			7.98	20
1,1,2-Trichloroethane	0.0250	ND	0.0238	0.0247	95.2	98.9	1	74.1-130			3.89	20
Trichloroethene	0.0250	ND	0.0238	0.0266	95.1	106	1	48.9-148			11.1	20
Trichlorofluoromethane	0.0250	ND	0.0238	0.0250	95.2	100	1	39.9-165			5.02	20
1,2,3-Trichloropropane	0.0250	ND	0.0265	0.0267	106	107	1	71.5-134			0.750	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0254	0.0261	102	104	1	62.7-133			2.77	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0256	0.0262	102	105	1	60.5-137			2.65	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0241	0.0254	96.3	101	1	67.9-134			5.14	20
Vinyl chloride	0.0250	ND	0.0269	0.0286	108	115	1	44.3-143			6.24	20
Xylenes, Total	0.0750	ND	0.0729	0.0773	97.2	103	1	65.6-133			5.84	20
(S) Toluene-d8					*104*	*104*		*90.0-115*				
(S) Dibromofluoromethane					*108*	*110*		*79.0-121*				
(S) 4-Bromofluorobenzene					*103*	*105*		*80.1-120*				

Method Blank (MB)

(MB) 03/10/16 07:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100

Method Blank (MB)

(MB) 03/10/16 07:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
(S) Toluene-d8	*108*		*90.0-115*	
(S) Dibromofluoromethane	*98.7*		*79.0-121*	
(S) 4-Bromofluorobenzene	*99.6*		*80.1-120*	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 06:18 • (LCSD) 03/10/16 06:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 06:18 • (LCSD) 03/10/16 06:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0535	0.0389	42.8	31.1	28.7-175		J3	31.7	20.9
Acrolein	0.125	0.0966	0.0817	77.3	65.4	40.4-172			16.7	20
Acrylonitrile	0.125	0.101	0.0935	80.7	74.8	58.2-145			7.51	20
Bromobenzene	0.0250	0.0218	0.0217	87.3	86.6	81.5-115			0.730	20
Bromodichloromethane	0.0250	0.0218	0.0222	87.2	88.6	75.5-121			1.57	20
Bromoform	0.0250	0.0209	0.0212	83.6	84.7	71.5-131			1.26	20
Bromomethane	0.0250	0.0177	0.0170	70.8	67.9	22.4-187			4.29	20
n-Butylbenzene	0.0250	0.0235	0.0238	93.9	95.4	75.9-134			1.61	20
sec-Butylbenzene	0.0250	0.0221	0.0229	88.5	91.6	80.6-126			3.45	20
tert-Butylbenzene	0.0250	0.0221	0.0227	88.4	90.8	79.3-127			2.65	20
Carbon tetrachloride	0.0250	0.0210	0.0223	84.1	89.2	70.9-129			5.90	20
Chlorobenzene	0.0250	0.0229	0.0224	91.8	89.6	79.7-122			2.36	20
Chlorodibromomethane	0.0250	0.0224	0.0225	89.6	90.0	78.2-124			0.450	20
Chloroethane	0.0250	0.0188	0.0197	75.2	78.9	41.2-153			4.83	20
2-Chloroethyl vinyl ether	0.125	0.121	0.126	96.6	101	23.4-162			4.08	23.5
Chloroform	0.0250	0.0216	0.0223	86.6	89.1	73.2-125			2.86	20
Chloromethane	0.0250	0.0192	0.0189	76.9	75.6	55.8-134			1.70	20
2-Chlorotoluene	0.0250	0.0229	0.0235	91.4	94.0	76.4-125			2.77	20
4-Chlorotoluene	0.0250	0.0234	0.0230	93.6	92.0	81.5-121			1.76	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0181	0.0193	72.3	77.1	64.8-131			6.47	20
1,2-Dibromoethane	0.0250	0.0228	0.0225	91.4	89.8	79.8-122			1.68	20
Dibromomethane	0.0250	0.0229	0.0234	91.5	93.7	79.5-118			2.29	20
1,2-Dichlorobenzene	0.0250	0.0225	0.0230	89.9	92.1	84.7-118			2.39	20
1,3-Dichlorobenzene	0.0250	0.0225	0.0229	90.1	91.7	77.6-127			1.82	20
1,4-Dichlorobenzene	0.0250	0.0224	0.0227	89.4	91.0	82.2-114			1.71	20
Dichlorodifluoromethane	0.0250	0.0165	0.0160	65.9	64.1	56.0-134			2.74	20
1,1-Dichloroethane	0.0250	0.0231	0.0235	92.3	94.2	71.7-127			2.01	20
1,2-Dichloroethane	0.0250	0.0216	0.0221	86.2	88.3	65.3-126			2.38	20
1,1-Dichloroethene	0.0250	0.0212	0.0187	85.0	74.7	59.9-137			12.9	20
cis-1,2-Dichloroethene	0.0250	0.0210	0.0213	83.9	85.1	77.3-122			1.45	20
trans-1,2-Dichloroethene	0.0250	0.0210	0.0213	83.9	85.1	72.6-125			1.45	20
1,2-Dichloropropane	0.0250	0.0246	0.0246	98.5	98.4	77.4-125			0.120	20
1,1-Dichloropropene	0.0250	0.0234	0.0242	93.7	96.9	72.5-127			3.29	20
1,3-Dichloropropane	0.0250	0.0239	0.0243	95.7	97.0	80.6-115			1.34	20
cis-1,3-Dichloropropene	0.0250	0.0227	0.0238	90.9	95.4	77.7-124			4.83	20
trans-1,3-Dichloropropene	0.0250	0.0215	0.0220	86.2	88.0	73.5-127			2.05	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 06:18 • (LCSD) 03/10/16 06:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,2-Dichloropropane	0.0250	0.0237	0.0251	94.8	100	61.3-134			5.73	20
Di-isopropyl ether	0.0250	0.0210	0.0221	84.1	88.2	65.1-135			4.84	20
Hexachloro-1,3-butadiene	0.0250	0.0243	0.0246	97.1	98.4	73.7-133			1.34	20
Isopropylbenzene	0.0250	0.0221	0.0225	88.3	90.1	81.6-124			1.98	20
p-Isopropyltoluene	0.0250	0.0230	0.0239	91.9	95.5	77.6-129			3.88	20
2-Butanone (MEK)	0.125	0.0718	0.0678	57.4	54.2	46.4-155			5.67	20
Methylene Chloride	0.0250	0.0219	0.0220	87.8	87.8	69.5-120			0.0500	20
4-Methyl-2-pentanone (MIBK)	0.125	0.0993	0.104	79.4	83.3	63.3-138			4.82	20
Methyl tert-butyl ether	0.0250	0.0192	0.0204	76.7	81.5	70.1-125			6.07	20
n-Propylbenzene	0.0250	0.0229	0.0233	91.7	93.1	81.9-122			1.52	20
Styrene	0.0250	0.0215	0.0213	86.1	85.3	79.9-124			0.920	20
1,1,1,2-Tetrachloroethane	0.0250	0.0217	0.0220	87.0	88.1	78.5-125			1.27	20
1,1,2,2-Tetrachloroethane	0.0250	0.0194	0.0202	77.5	80.7	79.3-123	J4		4.07	20
Tetrachloroethene	0.0250	0.0230	0.0233	92.1	93.4	73.5-130			1.42	20
Toluene	0.0250	0.0232	0.0234	92.8	93.7	77.9-116			0.940	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0194	0.0190	77.5	76.0	62.0-141			1.96	20
1,2,3-Trichlorobenzene	0.0250	0.0212	0.0232	84.7	92.7	75.7-134			8.99	20
1,2,4-Trichlorobenzene	0.0250	0.0220	0.0231	87.9	92.2	76.1-136			4.84	20
1,1,1-Trichloroethane	0.0250	0.0206	0.0222	82.2	88.7	71.1-129			7.55	20
1,1,2-Trichloroethane	0.0250	0.0205	0.0205	81.9	82.1	81.6-120			0.250	20
Trichloroethene	0.0250	0.0227	0.0236	90.9	94.4	79.5-121			3.79	20
Trichlorofluoromethane	0.0250	0.0208	0.0215	83.1	85.9	49.1-157			3.22	20
1,2,3-Trichloropropane	0.0250	0.0209	0.0218	83.8	87.1	74.9-124			3.97	20
1,2,3-Trimethylbenzene	0.0250	0.0223	0.0230	89.1	91.9	79.9-118			3.12	20
1,2,4-Trimethylbenzene	0.0250	0.0224	0.0229	89.7	91.7	79.0-122			2.28	20
1,3,5-Trimethylbenzene	0.0250	0.0219	0.0224	87.5	89.8	81.0-123			2.59	20
Vinyl chloride	0.0250	0.0194	0.0201	77.7	80.3	61.5-134			3.17	20
(S) Toluene-d8				*101*	*102*	*90.0-115*				
(S) Dibromofluoromethane				*97.0*	*98.7*	*79.0-121*				
(S) 4-Bromofluorobenzene				*97.8*	*94.8*	*80.1-120*				

L821258-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 09:35 • (MS) 03/10/16 08:16 • (MSD) 03/10/16 08:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %

L821258-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 09:35 • (MS) 03/10/16 08:16 • (MSD) 03/10/16 08:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00164	0.0438	0.0364	33.7	27.8	1	25.0-156			18.6	21.5
Acrolein	0.125	ND	0.128	0.115	103	91.7	1	34.0-194			11.3	21.5
Acrylonitrile	0.125	ND	0.116	0.105	92.7	83.8	1	55.9-161			10.2	20
Bromobenzene	0.0250	ND	0.0222	0.0207	88.7	82.9	1	70.6-125			6.83	20
Bromodichloromethane	0.0250	ND	0.0236	0.0219	94.6	87.4	1	69.2-127			7.82	20
Bromoform	0.0250	ND	0.0221	0.0209	88.3	83.7	1	66.3-140			5.46	20
Bromomethane	0.0250	ND	0.0221	0.0200	88.5	79.9	1	16.6-183			10.2	20.5
n-Butylbenzene	0.0250	0.000136	0.0223	0.0216	88.8	85.8	1	64.8-145			3.52	20
sec-Butylbenzene	0.0250	0.000197	0.0226	0.0216	89.8	85.4	1	66.8-139			4.88	20
tert-Butylbenzene	0.0250	ND	0.0228	0.0219	91.4	87.5	1	67.1-138			4.29	20
Carbon tetrachloride	0.0250	ND	0.0223	0.0214	89.4	85.5	1	60.6-139			4.43	20
Chlorobenzene	0.0250	ND	0.0229	0.0212	91.5	85.0	1	70.1-130			7.44	20
Chlorodibromomethane	0.0250	ND	0.0230	0.0216	91.9	86.5	1	71.6-132			6.05	20
Chloroethane	0.0250	ND	0.0214	0.0202	85.6	80.9	1	33.3-155			5.75	20
2-Chloroethyl vinyl ether	0.125	ND	0.132	0.124	106	99.3	1	5.00-149			6.29	40
Chloroform	0.0250	ND	0.0239	0.0224	95.8	89.5	1	66.1-133			6.73	20
Chloromethane	0.0250	ND	0.0224	0.0199	89.5	79.6	1	40.7-139			11.8	20
2-Chlorotoluene	0.0250	ND	0.0233	0.0216	93.2	86.5	1	66.9-134			7.45	20
4-Chlorotoluene	0.0250	ND	0.0224	0.0210	89.4	83.9	1	66.8-134			6.38	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0209	0.0197	83.4	78.8	1	63.9-142			5.69	20.2
1,2-Dibromoethane	0.0250	ND	0.0233	0.0223	93.3	89.0	1	73.8-131			4.69	20
Dibromomethane	0.0250	ND	0.0252	0.0240	101	96.1	1	72.8-127			4.61	20
1,2-Dichlorobenzene	0.0250	ND	0.0237	0.0232	94.6	92.6	1	77.4-127			2.12	20
1,3-Dichlorobenzene	0.0250	ND	0.0221	0.0210	88.6	84.0	1	67.9-136			5.27	20
1,4-Dichlorobenzene	0.0250	ND	0.0227	0.0213	90.9	85.3	1	74.4-123			6.34	20
Dichlorodifluoromethane	0.0250	ND	0.0217	0.0201	86.8	80.5	1	42.2-146			7.63	20
1,1-Dichloroethane	0.0250	ND	0.0254	0.0238	102	95.2	1	64.0-134			6.48	20
1,2-Dichloroethane	0.0250	ND	0.0240	0.0224	96.2	89.5	1	60.7-132			7.12	20
1,1-Dichloroethene	0.0250	ND	0.0189	0.0176	75.6	70.4	1	48.8-144			7.11	20
cis-1,2-Dichloroethene	0.0250	ND	0.0229	0.0213	91.7	85.3	1	60.6-136			7.22	20
trans-1,2-Dichloroethene	0.0250	ND	0.0216	0.0204	86.3	81.5	1	61.0-132			5.70	20
1,2-Dichloropropane	0.0250	ND	0.0268	0.0251	107	100	1	69.7-130			6.54	20
1,1-Dichloropropene	0.0250	ND	0.0245	0.0233	98.1	93.2	1	61.5-136			5.15	20
1,3-Dichloropropane	0.0250	ND	0.0253	0.0236	101	94.6	1	74.3-123			6.65	20
cis-1,3-Dichloropropene	0.0250	ND	0.0241	0.0228	96.3	91.3	1	71.1-129			5.38	20
trans-1,3-Dichloropropene	0.0250	ND	0.0221	0.0204	88.4	81.7	1	66.3-136			7.90	20

L821258-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 09:35 • (MS) 03/10/16 08:16 • (MSD) 03/10/16 08:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,2-Dichloropropane	0.0250	ND	0.0241	0.0227	96.4	90.7	1	54.9-142			6.17	20
Di-isopropyl ether	0.0250	0.000594	0.0243	0.0231	94.9	90.2	1	59.9-140			4.98	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0232	0.0232	92.9	93.0	1	61.1-144			0.0900	20.1
Isopropylbenzene	0.0250	0.000600	0.0228	0.0218	88.7	84.8	1	67.4-136			4.41	20
p-Isopropyltoluene	0.0250	ND	0.0227	0.0218	90.8	87.1	1	62.8-143			4.06	20
2-Butanone (MEK)	0.125	ND	0.0717	0.0660	57.3	52.8	1	45.0-156			8.22	20.8
Methylene Chloride	0.0250	ND	0.0232	0.0223	92.8	89.4	1	61.5-125			3.79	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.112	0.105	89.6	84.3	1	60.7-150			6.10	20
Methyl tert-butyl ether	0.0250	ND	0.0215	0.0206	85.9	82.3	1	61.4-136			4.37	20
n-Propylbenzene	0.0250	0.000455	0.0231	0.0218	90.8	85.5	1	63.2-139			5.88	20
Styrene	0.0250	ND	0.0220	0.0204	88.0	81.7	1	68.2-133			7.41	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0218	0.0209	87.1	83.5	1	70.5-132			4.25	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0210	0.0198	84.0	79.2	1	64.9-145			5.86	20
Tetrachloroethene	0.0250	ND	0.0221	0.0207	88.6	83.0	1	57.4-141			6.54	20
Toluene	0.0250	0.000250	0.0241	0.0227	95.3	89.8	1	67.8-124			5.82	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0199	0.0189	79.6	75.6	1	53.7-150			5.07	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0209	0.0212	83.6	84.8	1	65.7-143			1.48	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0204	0.0201	81.6	80.5	1	67.0-146			1.44	20
1,1,1-Trichloroethane	0.0250	ND	0.0223	0.0210	89.0	84.2	1	58.7-134			5.56	20
1,1,2-Trichloroethane	0.0250	ND	0.0213	0.0205	85.3	81.9	1	74.1-130			4.05	20
Trichloroethene	0.0250	ND	0.0236	0.0220	94.2	88.0	1	48.9-148			6.76	20
Trichlorofluoromethane	0.0250	ND	0.0233	0.0219	93.3	87.7	1	39.9-165			6.20	20
1,2,3-Trichloropropane	0.0250	ND	0.0225	0.0211	89.9	84.2	1	71.5-134			6.56	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0229	0.0222	91.7	89.0	1	62.7-133			3.01	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0220	0.0208	88.0	83.3	1	60.5-137			5.49	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0222	0.0211	88.7	84.3	1	67.9-134			5.09	20
Vinyl chloride	0.0250	ND	0.0220	0.0209	88.0	83.7	1	44.3-143			4.96	20
(S) Toluene-d8					*103*	*103*		*90.0-115*				
(S) Dibromofluoromethane					*98.8*	*99.0*		*79.0-121*				
(S) 4-Bromofluorobenzene					*96.6*	*96.0*		*80.1-120*				

Method Blank (MB)

(MB) 03/09/16 10:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100

Method Blank (MB)

(MB) 03/09/16 10:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*98.9*			*90.0-115*
(S) Dibromofluoromethane	*98.3*			*79.0-121*
(S) 4-Bromofluorobenzene	*97.4*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/09/16 08:46 • (LCSD) 03/09/16 09:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0574	0.0595	46.0	47.6	28.7-175			3.52	20.9
Acrolein	0.125	0.0901	0.103	72.1	82.5	40.4-172			13.4	20
Acrylonitrile	0.125	0.126	0.127	101	101	58.2-145			0.580	20
Benzene	0.0250	0.0237	0.0244	94.8	97.4	73.0-122			2.67	20
Bromobenzene	0.0250	0.0233	0.0243	93.1	97.3	81.5-115			4.40	20
Bromodichloromethane	0.0250	0.0233	0.0238	93.3	95.3	75.5-121			2.11	20
Bromoform	0.0250	0.0262	0.0269	105	108	71.5-131			2.65	20
Bromomethane	0.0250	0.0237	0.0244	95.0	97.6	22.4-187			2.78	20
n-Butylbenzene	0.0250	0.0241	0.0248	96.6	99.3	75.9-134			2.74	20
sec-Butylbenzene	0.0250	0.0251	0.0260	100	104	80.6-126			3.75	20
tert-Butylbenzene	0.0250	0.0254	0.0264	102	106	79.3-127			4.07	20
Carbon tetrachloride	0.0250	0.0212	0.0220	84.6	88.2	70.9-129			4.09	20
Chlorobenzene	0.0250	0.0246	0.0257	98.5	103	79.7-122			4.20	20
Chlorodibromomethane	0.0250	0.0251	0.0256	101	102	78.2-124			1.86	20
Chloroethane	0.0250	0.0240	0.0244	96.2	97.8	41.2-153			1.65	20
2-Chloroethyl vinyl ether	0.125	0.168	0.167	134	134	23.4-162			0.130	23.5
Chloroform	0.0250	0.0236	0.0239	94.5	95.6	73.2-125			1.19	20
Chloromethane	0.0250	0.0211	0.0216	84.3	86.2	55.8-134			2.29	20
2-Chlorotoluene	0.0250	0.0250	0.0259	99.8	104	76.4-125			3.68	20
4-Chlorotoluene	0.0250	0.0240	0.0250	96.0	100	81.5-121			4.17	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0263	0.0260	105	104	64.8-131			1.15	20
1,2-Dibromoethane	0.0250	0.0252	0.0261	101	104	79.8-122			3.33	20
Dibromomethane	0.0250	0.0246	0.0248	98.6	99.3	79.5-118			0.730	20
1,2-Dichlorobenzene	0.0250	0.0251	0.0257	100	103	84.7-118			2.62	20
1,3-Dichlorobenzene	0.0250	0.0249	0.0259	99.4	104	77.6-127			4.19	20
1,4-Dichlorobenzene	0.0250	0.0242	0.0249	96.9	99.6	82.2-114			2.69	20
Dichlorodifluoromethane	0.0250	0.0210	0.0219	84.2	87.7	56.0-134			4.06	20
1,1-Dichloroethane	0.0250	0.0238	0.0241	95.1	96.3	71.7-127			1.21	20
1,2-Dichloroethane	0.0250	0.0221	0.0223	88.6	89.1	65.3-126			0.610	20
1,1-Dichloroethene	0.0250	0.0226	0.0226	90.5	90.3	59.9-137			0.200	20
cis-1,2-Dichloroethene	0.0250	0.0251	0.0257	100	103	77.3-122			2.44	20
trans-1,2-Dichloroethene	0.0250	0.0248	0.0253	99.0	101	72.6-125			2.25	20
1,2-Dichloropropane	0.0250	0.0239	0.0245	95.7	97.9	77.4-125			2.25	20
1,1-Dichloropropene	0.0250	0.0236	0.0242	94.5	96.7	72.5-127			2.23	20
1,3-Dichloropropane	0.0250	0.0248	0.0253	99.0	101	80.6-115			2.25	20
cis-1,3-Dichloropropene	0.0250	0.0245	0.0249	97.9	99.5	77.7-124			1.63	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/09/16 08:46 • (LCSD) 03/09/16 09:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0240	0.0246	96.1	98.4	73.5-127			2.32	20
2,2-Dichloropropane	0.0250	0.0211	0.0224	84.5	89.5	61.3-134			5.69	20
Di-isopropyl ether	0.0250	0.0228	0.0232	91.0	92.8	65.1-135			1.92	20
Ethylbenzene	0.0250	0.0248	0.0259	99.3	104	80.9-121			4.39	20
Hexachloro-1,3-butadiene	0.0250	0.0251	0.0259	100	104	73.7-133			3.25	20
Isopropylbenzene	0.0250	0.0246	0.0258	98.5	103	81.6-124			4.85	20
p-Isopropyltoluene	0.0250	0.0260	0.0270	104	108	77.6-129			4.04	20
2-Butanone (MEK)	0.125	0.0970	0.0947	77.6	75.8	46.4-155			2.39	20
Methylene Chloride	0.0250	0.0240	0.0246	95.9	98.2	69.5-120			2.45	20
4-Methyl-2-pentanone (MIBK)	0.125	0.122	0.122	97.8	97.6	63.3-138			0.160	20
Methyl tert-butyl ether	0.0250	0.0238	0.0240	95.2	95.9	70.1-125			0.750	20
Naphthalene	0.0250	0.0255	0.0265	102	106	69.7-134			3.90	20
n-Propylbenzene	0.0250	0.0247	0.0256	98.9	102	81.9-122			3.47	20
Styrene	0.0250	0.0255	0.0264	102	106	79.9-124			3.40	20
1,1,1,2-Tetrachloroethane	0.0250	0.0250	0.0262	100	105	78.5-125			4.33	20
1,1,2,2-Tetrachloroethane	0.0250	0.0252	0.0253	101	101	79.3-123			0.120	20
Tetrachloroethene	0.0250	0.0245	0.0252	97.9	101	73.5-130			2.72	20
Toluene	0.0250	0.0238	0.0244	95.2	97.5	77.9-116			2.41	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0235	0.0245	94.1	97.9	62.0-141			3.92	20
1,2,3-Trichlorobenzene	0.0250	0.0255	0.0266	102	106	75.7-134			4.27	20
1,2,4-Trichlorobenzene	0.0250	0.0253	0.0261	101	104	76.1-136			2.97	20
1,1,1-Trichloroethane	0.0250	0.0222	0.0227	88.8	90.7	71.1-129			2.14	20
1,1,2-Trichloroethane	0.0250	0.0248	0.0255	99.2	102	81.6-120			2.86	20
Trichloroethene	0.0250	0.0241	0.0249	96.2	99.7	79.5-121			3.59	20
Trichlorofluoromethane	0.0250	0.0240	0.0243	96.0	97.1	49.1-157			1.13	20
1,2,3-Trichloropropane	0.0250	0.0251	0.0258	100	103	74.9-124			2.90	20
1,2,3-Trimethylbenzene	0.0250	0.0247	0.0253	98.8	101	79.9-118			2.31	20
1,2,4-Trimethylbenzene	0.0250	0.0247	0.0257	98.9	103	79.0-122			3.78	20
1,3,5-Trimethylbenzene	0.0250	0.0248	0.0260	99.4	104	81.0-123			4.48	20
Vinyl chloride	0.0250	0.0215	0.0220	86.0	87.8	61.5-134			2.05	20
Xylenes, Total	0.0750	0.0750	0.0777	100	104	79.2-122			3.48	20
(S) Toluene-d8				*98.3*	*98.6*	*90.0-115*				
(S) Dibromofluoromethane				*100*	*99.5*	*79.0-121*				
(S) 4-Bromofluorobenzene				*93.9*	*95.0*	*80.1-120*				

L821297-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/09/16 12:30 • (MS) 03/09/16 10:27 • (MSD) 03/09/16 10:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00450	0.0629	0.0552	46.7	40.5	1	25.0-156			13.1	21.5
Acrolein	0.125	ND	0.116	0.106	92.5	84.7	1	34.0-194			8.83	21.5
Acrylonitrile	0.125	ND	0.139	0.131	111	105	1	55.9-161			5.78	20
Benzene	0.0250	0.139	0.160	0.149	81.7	36.8	1	58.6-133		V	7.27	20
Bromobenzene	0.0250	ND	0.0268	0.0255	107	102	1	70.6-125			4.82	20
Bromodichloromethane	0.0250	ND	0.0259	0.0247	103	98.6	1	69.2-127			4.72	20
Bromoform	0.0250	ND	0.0293	0.0280	117	112	1	66.3-140			4.40	20
Bromomethane	0.0250	ND	0.0252	0.0249	101	99.6	1	16.6-183			1.16	20.5
n-Butylbenzene	0.0250	0.00116	0.0279	0.0273	107	105	1	64.8-145			2.18	20
sec-Butylbenzene	0.0250	0.000512	0.0275	0.0269	108	106	1	66.8-139			2.02	20
tert-Butylbenzene	0.0250	ND	0.0270	0.0268	108	107	1	67.1-138			0.780	20
Carbon tetrachloride	0.0250	ND	0.0229	0.0225	91.4	90.1	1	60.6-139			1.41	20
Chlorobenzene	0.0250	ND	0.0278	0.0264	111	106	1	70.1-130			5.12	20
Chlorodibromomethane	0.0250	ND	0.0281	0.0267	113	107	1	71.6-132			5.37	20
Chloroethane	0.0250	ND	0.0257	0.0244	103	97.6	1	33.3-155			5.07	20
2-Chloroethyl vinyl ether	0.125	ND	0.0163	0.00598	13.0	4.78	1	5.00-149		J3 J6	92.5	40
Chloroform	0.0250	ND	0.0256	0.0251	102	100	1	66.1-133			1.87	20
Chloromethane	0.0250	ND	0.0224	0.0218	89.6	87.2	1	40.7-139			2.74	20
2-Chlorotoluene	0.0250	ND	0.0279	0.0268	111	107	1	66.9-134			3.82	20
4-Chlorotoluene	0.0250	ND	0.0272	0.0260	109	104	1	66.8-134			4.73	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0273	0.0274	109	110	1	63.9-142			0.540	20.2
1,2-Dibromoethane	0.0250	ND	0.0285	0.0267	114	107	1	73.8-131			6.67	20
Dibromomethane	0.0250	ND	0.0272	0.0258	109	103	1	72.8-127			4.91	20
1,2-Dichlorobenzene	0.0250	ND	0.0273	0.0267	109	107	1	77.4-127			2.23	20
1,3-Dichlorobenzene	0.0250	ND	0.0279	0.0271	112	108	1	67.9-136			3.12	20
1,4-Dichlorobenzene	0.0250	ND	0.0270	0.0264	108	106	1	74.4-123			2.22	20
Dichlorodifluoromethane	0.0250	ND	0.0231	0.0229	92.5	91.5	1	42.2-146			1.05	20
1,1-Dichloroethane	0.0250	ND	0.0258	0.0251	103	100	1	64.0-134			2.79	20
1,2-Dichloroethane	0.0250	ND	0.0245	0.0235	97.9	93.8	1	60.7-132			4.22	20
1,1-Dichloroethene	0.0250	ND	0.0242	0.0236	97.0	94.4	1	48.8-144			2.73	20
cis-1,2-Dichloroethene	0.0250	ND	0.0271	0.0268	109	107	1	60.6-136			1.15	20
trans-1,2-Dichloroethene	0.0250	ND	0.0266	0.0261	106	105	1	61.0-132			1.63	20
1,2-Dichloropropane	0.0250	ND	0.0265	0.0254	106	101	1	69.7-130			4.42	20
1,1-Dichloropropene	0.0250	ND	0.0257	0.0252	103	101	1	61.5-136			2.05	20
1,3-Dichloropropane	0.0250	ND	0.0282	0.0271	113	108	1	74.3-123			3.96	20
cis-1,3-Dichloropropene	0.0250	ND	0.0274	0.0259	110	103	1	71.1-129			5.82	20

L821297-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/09/16 12:30 • (MS) 03/09/16 10:27 • (MSD) 03/09/16 10:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0273	0.0259	109	104	1	66.3-136			5.11	20
2,2-Dichloropropane	0.0250	ND	0.0242	0.0245	96.9	97.8	1	54.9-142			0.980	20
Di-isopropyl ether	0.0250	ND	0.0252	0.0245	101	97.9	1	59.9-140			2.89	20
Ethylbenzene	0.0250	0.133	0.164	0.150	127	68.9	1	62.7-136			9.27	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0232	0.0226	92.8	90.2	1	61.1-144			2.84	20.1
Isopropylbenzene	0.0250	0.0211	0.0483	0.0459	109	99.2	1	67.4-136			5.02	20
p-Isopropyltoluene	0.0250	0.00471	0.0328	0.0319	112	109	1	62.8-143			2.60	20
2-Butanone (MEK)	0.125	ND	0.0917	0.0831	73.4	66.5	1	45.0-156			9.81	20.8
Methylene Chloride	0.0250	ND	0.0258	0.0254	103	101	1	61.5-125			1.87	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.132	0.124	105	99.4	1	60.7-150			5.72	20
Methyl tert-butyl ether	0.0250	ND	0.0257	0.0251	103	100	1	61.4-136			2.70	20
Naphthalene	0.0250	0.190	0.226	0.217	142	105	1	61.8-143			4.16	20
n-Propylbenzene	0.0250	0.00442	0.0322	0.0308	111	106	1	63.2-139			4.37	20
Styrene	0.0250	ND	0.0320	0.0303	128	121	1	68.2-133			5.29	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0274	0.0269	110	107	1	70.5-132			2.01	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0276	0.0264	111	106	1	64.9-145			4.50	20
Tetrachloroethene	0.0250	ND	0.0274	0.0264	110	105	1	57.4-141			3.92	20
Toluene	0.0250	0.00478	0.0314	0.0295	106	98.8	1	67.8-124			6.29	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0261	0.0248	105	99.0	1	53.7-150			5.42	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0253	0.0249	101	99.5	1	65.7-143			1.84	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0263	0.0259	105	103	1	67.0-146			1.66	20
1,1,1-Trichloroethane	0.0250	ND	0.0245	0.0242	98.0	96.7	1	58.7-134			1.34	20
1,1,2-Trichloroethane	0.0250	ND	0.0289	0.0267	116	107	1	74.1-130			7.79	20
Trichloroethene	0.0250	ND	0.0260	0.0249	104	99.6	1	48.9-148			4.39	20
Trichlorofluoromethane	0.0250	ND	0.0258	0.0250	103	99.9	1	39.9-165			3.16	20
1,2,3-Trichloropropane	0.0250	ND	0.0277	0.0264	111	106	1	71.5-134			4.83	20
1,2,3-Trimethylbenzene	0.0250	0.0345	0.0606	0.0589	105	97.6	1	62.7-133			2.91	20
1,2,4-Trimethylbenzene	0.0250	0.0475	0.0757	0.0717	113	96.8	1	60.5-137			5.48	20
1,3,5-Trimethylbenzene	0.0250	0.00783	0.0353	0.0345	110	107	1	67.9-134			2.15	20
Vinyl chloride	0.0250	ND	0.0231	0.0227	92.3	90.8	1	44.3-143			1.64	20
Xylenes, Total	0.0750	0.105	0.191	0.180	115	99.9	1	65.6-133			6.24	20
(S) Toluene-d8					*99.5*	*99.1*		*90.0-115*				
(S) Dibromofluoromethane					*98.3*	*101*		*79.0-121*				
(S) 4-Bromofluorobenzene					*96.9*	*95.4*		*80.1-120*				

Method Blank (MB)

(MB) 03/10/16 08:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100

Method Blank (MB)

(MB) 03/10/16 08:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*104*			*90.0-115*
(S) Dibromofluoromethane	*105*			*79.0-121*
(S) 4-Bromofluorobenzene	*89.0*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 10:12 • (LCSD) 03/10/16 10:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0677	0.0614	54.2	49.1	28.7-175			9.84	20.9
Acrolein	0.125	0.103	0.0973	82.0	77.9	40.4-172			5.22	20
Acrylonitrile	0.125	0.167	0.147	134	118	58.2-145			12.8	20
Benzene	0.0250	0.0270	0.0259	108	104	73.0-122			4.19	20
Bromobenzene	0.0250	0.0236	0.0225	94.2	90.1	81.5-115			4.53	20
Bromodichloromethane	0.0250	0.0251	0.0238	100	95.2	75.5-121			5.20	20
Bromoform	0.0250	0.0228	0.0215	91.1	85.8	71.5-131			6.01	20
Bromomethane	0.0250	0.0279	0.0266	112	106	22.4-187			4.95	20
n-Butylbenzene	0.0250	0.0245	0.0243	98.0	97.0	75.9-134			1.04	20
sec-Butylbenzene	0.0250	0.0219	0.0210	87.6	84.1	80.6-126			4.12	20
tert-Butylbenzene	0.0250	0.0226	0.0213	90.3	85.1	79.3-127			5.89	20
Carbon tetrachloride	0.0250	0.0229	0.0219	91.6	87.7	70.9-129			4.29	20
Chlorobenzene	0.0250	0.0240	0.0233	96.0	93.3	79.7-122			2.83	20
Chlorodibromomethane	0.0250	0.0239	0.0229	95.5	91.5	78.2-124			4.25	20
Chloroethane	0.0250	0.0282	0.0267	113	107	41.2-153			5.14	20
2-Chloroethyl vinyl ether	0.125	0.00419	0.00408	3.35	3.26	23.4-162	J4	J4	2.78	23.5
Chloroform	0.0250	0.0260	0.0244	104	97.7	73.2-125			6.18	20
Chloromethane	0.0250	0.0288	0.0270	115	108	55.8-134			6.53	20
2-Chlorotoluene	0.0250	0.0233	0.0223	93.2	89.4	76.4-125			4.22	20
4-Chlorotoluene	0.0250	0.0227	0.0223	90.9	89.1	81.5-121			2.05	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0261	0.0240	104	95.9	64.8-131			8.50	20
1,2-Dibromoethane	0.0250	0.0245	0.0231	97.9	92.3	79.8-122			5.82	20
Dibromomethane	0.0250	0.0265	0.0250	106	100	79.5-118			5.79	20
1,2-Dichlorobenzene	0.0250	0.0247	0.0240	98.9	96.1	84.7-118			2.87	20
1,3-Dichlorobenzene	0.0250	0.0217	0.0212	86.9	84.8	77.6-127			2.51	20
1,4-Dichlorobenzene	0.0250	0.0236	0.0232	94.5	92.8	82.2-114			1.79	20
Dichlorodifluoromethane	0.0250	0.0243	0.0224	97.4	89.5	56.0-134			8.38	20
1,1-Dichloroethane	0.0250	0.0276	0.0263	110	105	71.7-127			4.86	20
1,2-Dichloroethane	0.0250	0.0264	0.0254	106	101	65.3-126			4.17	20
1,1-Dichloroethene	0.0250	0.0261	0.0247	104	98.7	59.9-137			5.47	20
cis-1,2-Dichloroethene	0.0250	0.0260	0.0249	104	99.7	77.3-122			4.36	20
trans-1,2-Dichloroethene	0.0250	0.0247	0.0239	98.8	95.5	72.6-125			3.43	20
1,2-Dichloropropane	0.0250	0.0271	0.0273	108	109	77.4-125			0.670	20
1,1-Dichloropropene	0.0250	0.0270	0.0259	108	103	72.5-127			4.17	20
1,3-Dichloropropane	0.0250	0.0266	0.0252	106	101	80.6-115			5.18	20
cis-1,3-Dichloropropene	0.0250	0.0258	0.0251	103	101	77.7-124			2.69	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 10:12 • (LCSD) 03/10/16 10:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0271	0.0266	109	107	73.5-127			1.87	20
2,2-Dichloropropane	0.0250	0.0214	0.0205	85.5	82.0	61.3-134			4.13	20
Di-isopropyl ether	0.0250	0.0284	0.0273	114	109	65.1-135			3.99	20
Ethylbenzene	0.0250	0.0232	0.0224	92.8	89.7	80.9-121			3.40	20
Hexachloro-1,3-butadiene	0.0250	0.0233	0.0224	93.3	89.7	73.7-133			3.85	20
Isopropylbenzene	0.0250	0.0209	0.0202	83.7	80.9	81.6-124		J4	3.51	20
p-Isopropyltoluene	0.0250	0.0221	0.0214	88.4	85.6	77.6-129			3.30	20
2-Butanone (MEK)	0.125	0.102	0.0909	81.6	72.7	46.4-155			11.5	20
Methylene Chloride	0.0250	0.0260	0.0252	104	101	69.5-120			2.80	20
4-Methyl-2-pentanone (MIBK)	0.125	0.146	0.132	117	105	63.3-138			10.4	20
Methyl tert-butyl ether	0.0250	0.0265	0.0250	106	100	70.1-125			6.04	20
Naphthalene	0.0250	0.0294	0.0280	117	112	69.7-134			4.90	20
n-Propylbenzene	0.0250	0.0218	0.0210	87.2	84.0	81.9-122			3.76	20
Styrene	0.0250	0.0237	0.0233	94.9	93.0	79.9-124			1.99	20
1,1,1,2-Tetrachloroethane	0.0250	0.0234	0.0222	93.5	88.9	78.5-125			5.00	20
1,1,2,2-Tetrachloroethane	0.0250	0.0249	0.0229	99.8	91.6	79.3-123			8.48	20
Tetrachloroethene	0.0250	0.0213	0.0209	85.2	83.7	73.5-130			1.85	20
Toluene	0.0250	0.0247	0.0238	98.7	95.3	77.9-116			3.52	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0259	0.0244	104	97.6	62.0-141			5.96	20
1,2,3-Trichlorobenzene	0.0250	0.0242	0.0234	96.9	93.4	75.7-134			3.64	20
1,2,4-Trichlorobenzene	0.0250	0.0233	0.0236	93.2	94.2	76.1-136			1.07	20
1,1,1-Trichloroethane	0.0250	0.0240	0.0227	95.9	90.7	71.1-129			5.58	20
1,1,2-Trichloroethane	0.0250	0.0249	0.0238	99.6	95.1	81.6-120			4.57	20
Trichloroethene	0.0250	0.0243	0.0234	97.3	93.7	79.5-121			3.85	20
Trichlorofluoromethane	0.0250	0.0234	0.0224	93.7	89.5	49.1-157			4.60	20
1,2,3-Trichloropropane	0.0250	0.0246	0.0222	98.6	88.6	74.9-124			10.6	20
1,2,3-Trimethylbenzene	0.0250	0.0244	0.0239	97.8	95.7	79.9-118			2.13	20
1,2,4-Trimethylbenzene	0.0250	0.0222	0.0214	88.9	85.5	79.0-122			3.82	20
1,3,5-Trimethylbenzene	0.0250	0.0215	0.0206	85.9	82.6	81.0-123			3.93	20
Vinyl chloride	0.0250	0.0284	0.0266	114	106	61.5-134			6.69	20
Xylenes, Total	0.0750	0.0685	0.0659	91.3	87.8	79.2-122			3.92	20
(S) Toluene-d8				*102*	*102*	*90.0-115*				
(S) Dibromofluoromethane				*104*	*105*	*79.0-121*				
(S) 4-Bromofluorobenzene				*89.1*	*88.0*	*80.1-120*				

Method Blank (MB)

(MB) 03/10/16 10:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100

Method Blank (MB)

(MB) 03/10/16 10:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*97.0*			*90.0-115*
(S) Dibromofluoromethane	*98.9*			*79.0-121*
(S) 4-Bromofluorobenzene	*97.8*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 09:31 • (LCSD) 03/10/16 09:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0540	0.0520	43.2	41.6	28.7-175			3.74	20.9
Acrolein	0.125	0.0654	0.0681	52.3	54.5	40.4-172			4.06	20
Acrylonitrile	0.125	0.115	0.109	92.4	86.9	58.2-145			6.14	20
Benzene	0.0250	0.0247	0.0228	99.0	91.3	73.0-122			8.09	20
Bromobenzene	0.0250	0.0259	0.0234	103	93.6	81.5-115			9.98	20
Bromodichloromethane	0.0250	0.0247	0.0224	98.9	89.4	75.5-121			10.1	20
Bromoform	0.0250	0.0271	0.0254	108	102	71.5-131			6.30	20
Bromomethane	0.0250	0.0243	0.0211	97.1	84.6	22.4-187			13.8	20
n-Butylbenzene	0.0250	0.0259	0.0231	104	92.3	75.9-134			11.7	20
sec-Butylbenzene	0.0250	0.0273	0.0237	109	94.8	80.6-126			13.9	20
tert-Butylbenzene	0.0250	0.0276	0.0241	110	96.5	79.3-127			13.5	20
Carbon tetrachloride	0.0250	0.0216	0.0197	86.5	78.6	70.9-129			9.60	20
Chlorobenzene	0.0250	0.0278	0.0254	111	101	79.7-122			9.14	20
Chlorodibromomethane	0.0250	0.0272	0.0252	109	101	78.2-124			7.66	20
Chloroethane	0.0250	0.0234	0.0210	93.8	83.8	41.2-153			11.2	20
2-Chloroethyl vinyl ether	0.125	0.162	0.161	130	128	23.4-162			1.18	23.5
Chloroform	0.0250	0.0242	0.0219	96.9	87.5	73.2-125			10.2	20
Chloromethane	0.0250	0.0192	0.0170	76.7	68.0	55.8-134			12.0	20
2-Chlorotoluene	0.0250	0.0279	0.0244	112	97.4	76.4-125			13.7	20
4-Chlorotoluene	0.0250	0.0270	0.0238	108	95.2	81.5-121			12.5	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0236	0.0223	94.5	89.3	64.8-131			5.67	20
1,2-Dibromoethane	0.0250	0.0268	0.0255	107	102	79.8-122			5.04	20
Dibromomethane	0.0250	0.0251	0.0229	101	91.5	79.5-118			9.35	20
1,2-Dichlorobenzene	0.0250	0.0265	0.0242	106	96.7	84.7-118			8.97	20
1,3-Dichlorobenzene	0.0250	0.0271	0.0235	108	93.9	77.6-127			14.3	20
1,4-Dichlorobenzene	0.0250	0.0261	0.0239	104	95.6	82.2-114			8.74	20
Dichlorodifluoromethane	0.0250	0.0168	0.0150	67.0	60.0	56.0-134			11.0	20
1,1-Dichloroethane	0.0250	0.0240	0.0219	96.0	87.5	71.7-127			9.34	20
1,2-Dichloroethane	0.0250	0.0222	0.0207	89.0	82.7	65.3-126			7.35	20
1,1-Dichloroethene	0.0250	0.0234	0.0209	93.5	83.7	59.9-137			11.0	20
cis-1,2-Dichloroethene	0.0250	0.0261	0.0235	104	94.1	77.3-122			10.3	20
trans-1,2-Dichloroethene	0.0250	0.0259	0.0233	104	93.0	72.6-125			10.8	20
1,2-Dichloropropane	0.0250	0.0255	0.0235	102	94.1	77.4-125			8.00	20
1,1-Dichloropropene	0.0250	0.0250	0.0228	100	91.1	72.5-127			9.43	20
1,3-Dichloropropane	0.0250	0.0264	0.0251	106	100	80.6-115			4.90	20
cis-1,3-Dichloropropene	0.0250	0.0258	0.0241	103	96.3	77.7-124			6.81	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 09:31 • (LCSD) 03/10/16 09:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0249	0.0239	99.4	95.4	73.5-127			4.10	20
2,2-Dichloropropane	0.0250	0.0227	0.0200	90.7	79.9	61.3-134			12.6	20
Di-isopropyl ether	0.0250	0.0229	0.0209	91.7	83.7	65.1-135			9.16	20
Ethylbenzene	0.0250	0.0277	0.0251	111	100	80.9-121			9.81	20
Hexachloro-1,3-butadiene	0.0250	0.0265	0.0234	106	93.7	73.7-133			12.4	20
Isopropylbenzene	0.0250	0.0274	0.0241	109	96.6	81.6-124			12.5	20
p-Isopropyltoluene	0.0250	0.0285	0.0244	114	97.6	77.6-129			15.6	20
2-Butanone (MEK)	0.125	0.0813	0.0792	65.0	63.4	46.4-155			2.56	20
Methylene Chloride	0.0250	0.0249	0.0224	99.8	89.6	69.5-120			10.8	20
4-Methyl-2-pentanone (MIBK)	0.125	0.111	0.105	89.1	84.3	63.3-138			5.53	20
Methyl tert-butyl ether	0.0250	0.0228	0.0209	91.4	83.5	70.1-125			9.03	20
Naphthalene	0.0250	0.0246	0.0226	98.3	90.3	69.7-134			8.44	20
n-Propylbenzene	0.0250	0.0273	0.0241	109	96.4	81.9-122			12.6	20
Styrene	0.0250	0.0284	0.0258	114	103	79.9-124			9.49	20
1,1,1,2-Tetrachloroethane	0.0250	0.0278	0.0249	111	99.7	78.5-125			11.0	20
1,1,2,2-Tetrachloroethane	0.0250	0.0255	0.0235	102	93.8	79.3-123			8.25	20
Tetrachloroethene	0.0250	0.0278	0.0252	111	101	73.5-130			10.1	20
Toluene	0.0250	0.0256	0.0235	102	93.8	77.9-116			8.64	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0247	0.0221	98.9	88.3	62.0-141			11.4	20
1,2,3-Trichlorobenzene	0.0250	0.0261	0.0230	105	91.9	75.7-134			12.8	20
1,2,4-Trichlorobenzene	0.0250	0.0263	0.0227	105	90.9	76.1-136			14.6	20
1,1,1-Trichloroethane	0.0250	0.0237	0.0212	94.6	84.7	71.1-129			11.1	20
1,1,2-Trichloroethane	0.0250	0.0266	0.0249	106	99.6	81.6-120			6.55	20
Trichloroethene	0.0250	0.0258	0.0234	103	93.5	79.5-121			9.99	20
Trichlorofluoromethane	0.0250	0.0239	0.0216	95.6	86.2	49.1-157			10.3	20
1,2,3-Trichloropropane	0.0250	0.0255	0.0234	102	93.8	74.9-124			8.35	20
1,2,3-Trimethylbenzene	0.0250	0.0265	0.0240	106	96.0	79.9-118			9.74	20
1,2,4-Trimethylbenzene	0.0250	0.0275	0.0240	110	95.9	79.0-122			13.8	20
1,3,5-Trimethylbenzene	0.0250	0.0270	0.0235	108	94.1	81.0-123			13.8	20
Vinyl chloride	0.0250	0.0201	0.0181	80.3	72.2	61.5-134			10.6	20
Xylenes, Total	0.0750	0.0836	0.0748	111	99.8	79.2-122			11.1	20
(S) Toluene-d8				*97.3*	*98.0*	*90.0-115*				
(S) Dibromofluoromethane				*96.2*	*95.3*	*79.0-121*				
(S) 4-Bromofluorobenzene				*96.1*	*94.8*	*80.1-120*				

L822220-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 12:34 • (MS) 03/10/16 12:55 • (MSD) 03/10/16 13:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00468	0.0611	0.0512	45.1	37.2	1	25.0-156			17.5	21.5
Acrolein	0.125	ND	0.0984	0.0790	78.8	63.2	1	34.0-194		J3	22.0	21.5
Acrylonitrile	0.125	ND	0.139	0.117	111	93.9	1	55.9-161			16.6	20
Benzene	0.0250	ND	0.0256	0.0228	103	91.1	1	58.6-133			11.8	20
Bromobenzene	0.0250	ND	0.0263	0.0232	105	92.7	1	70.6-125			12.5	20
Bromodichloromethane	0.0250	ND	0.0246	0.0226	98.4	90.6	1	69.2-127			8.29	20
Bromoform	0.0250	ND	0.0272	0.0254	109	102	1	66.3-140			6.75	20
Bromomethane	0.0250	ND	0.0272	0.0233	109	93.3	1	16.6-183			15.2	20.5
n-Butylbenzene	0.0250	ND	0.0279	0.0237	112	94.8	1	64.8-145			16.2	20
sec-Butylbenzene	0.0250	ND	0.0287	0.0237	115	94.7	1	66.8-139			19.2	20
tert-Butylbenzene	0.0250	ND	0.0284	0.0239	114	95.6	1	67.1-138			17.2	20
Carbon tetrachloride	0.0250	ND	0.0232	0.0195	92.8	78.0	1	60.6-139			17.4	20
Chlorobenzene	0.0250	ND	0.0280	0.0249	112	99.7	1	70.1-130			11.7	20
Chlorodibromomethane	0.0250	ND	0.0268	0.0251	107	100	1	71.6-132			6.55	20
Chloroethane	0.0250	ND	0.0270	0.0226	108	90.2	1	33.3-155			18.1	20
2-Chloroethyl vinyl ether	0.125	ND	0.0340	0.0265	27.2	21.2	1	5.00-149			24.7	40
Chloroform	0.0250	ND	0.0254	0.0221	102	88.6	1	66.1-133			13.7	20
Chloromethane	0.0250	ND	0.0256	0.0211	103	84.5	1	40.7-139			19.3	20
2-Chlorotoluene	0.0250	ND	0.0288	0.0247	115	98.6	1	66.9-134			15.6	20
4-Chlorotoluene	0.0250	ND	0.0276	0.0240	111	95.9	1	66.8-134			14.2	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0256	0.0232	103	92.7	1	63.9-142			10.1	20.2
1,2-Dibromoethane	0.0250	ND	0.0275	0.0253	110	101	1	73.8-131			8.20	20
Dibromomethane	0.0250	ND	0.0261	0.0236	104	94.2	1	72.8-127			10.3	20
1,2-Dichlorobenzene	0.0250	ND	0.0271	0.0243	108	97.0	1	77.4-127			11.1	20
1,3-Dichlorobenzene	0.0250	ND	0.0273	0.0238	109	95.2	1	67.9-136			13.8	20
1,4-Dichlorobenzene	0.0250	ND	0.0268	0.0240	107	95.8	1	74.4-123			11.1	20
Dichlorodifluoromethane	0.0250	ND	0.0278	0.0230	111	92.0	1	42.2-146			19.1	20
1,1-Dichloroethane	0.0250	ND	0.0258	0.0222	103	88.7	1	64.0-134			15.1	20
1,2-Dichloroethane	0.0250	0.00114	0.0249	0.0224	94.9	85.1	1	60.7-132			10.4	20
1,1-Dichloroethene	0.0250	ND	0.0246	0.0206	98.4	82.4	1	48.8-144			17.7	20
cis-1,2-Dichloroethene	0.0250	ND	0.0269	0.0237	108	94.9	1	60.6-136			12.5	20
trans-1,2-Dichloroethene	0.0250	ND	0.0275	0.0231	110	92.4	1	61.0-132			17.2	20
1,2-Dichloropropane	0.0250	ND	0.0259	0.0237	103	94.7	1	69.7-130			8.91	20
1,1-Dichloropropene	0.0250	ND	0.0264	0.0231	106	92.6	1	61.5-136			13.2	20
1,3-Dichloropropane	0.0250	ND	0.0272	0.0251	109	100	1	74.3-123			8.03	20
cis-1,3-Dichloropropene	0.0250	ND	0.0256	0.0243	103	97.4	1	71.1-129			5.14	20

L822220-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 12:34 • (MS) 03/10/16 12:55 • (MSD) 03/10/16 13:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.000587	0.0252	0.0243	98.6	95.0	1	66.3-136			3.68	20
2,2-Dichloropropane	0.0250	ND	0.0307	0.0212	123	84.8	1	54.9-142		J3	36.8	20
Di-isopropyl ether	0.0250	0.000671	0.0248	0.0221	96.6	85.8	1	59.9-140			11.4	20
Ethylbenzene	0.0250	ND	0.0280	0.0248	112	99.1	1	62.7-136			12.4	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0285	0.0241	114	96.3	1	61.1-144			16.8	20.1
Isopropylbenzene	0.0250	ND	0.0282	0.0238	113	95.1	1	67.4-136			17.0	20
p-Isopropyltoluene	0.0250	ND	0.0298	0.0246	119	98.5	1	62.8-143			18.9	20
2-Butanone (MEK)	0.125	ND	0.0857	0.0762	68.6	61.0	1	45.0-156			11.8	20.8
Methylene Chloride	0.0250	ND	0.0260	0.0225	104	90.1	1	61.5-125			14.2	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.124	0.111	99.6	88.5	1	60.7-150			11.8	20
Methyl tert-butyl ether	0.0250	0.0821	0.106	0.0973	95.1	61.0	1	61.4-136		J6	8.39	20
Naphthalene	0.0250	0.000151	0.0248	0.0233	98.6	92.6	1	61.8-143			6.30	20
n-Propylbenzene	0.0250	ND	0.0284	0.0242	114	96.7	1	63.2-139			16.2	20
Styrene	0.0250	ND	0.0278	0.0253	111	101	1	68.2-133			9.44	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0282	0.0243	113	97.4	1	70.5-132			14.6	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0281	0.0240	112	95.9	1	64.9-145			15.8	20
Tetrachloroethene	0.0250	ND	0.0278	0.0245	111	97.9	1	57.4-141			12.6	20
Toluene	0.0250	ND	0.0258	0.0234	103	93.6	1	67.8-124			9.54	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0265	0.0217	106	86.6	1	53.7-150		J3	20.1	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0260	0.0238	104	95.2	1	65.7-143			8.76	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0264	0.0238	106	95.3	1	67.0-146			10.2	20
1,1,1-Trichloroethane	0.0250	ND	0.0252	0.0216	101	86.4	1	58.7-134			15.2	20
1,1,2-Trichloroethane	0.0250	ND	0.0275	0.0248	110	99.0	1	74.1-130			10.4	20
Trichloroethene	0.0250	ND	0.0261	0.0231	104	92.5	1	48.9-148			12.1	20
Trichlorofluoromethane	0.0250	ND	0.0275	0.0227	110	90.8	1	39.9-165			19.0	20
1,2,3-Trichloropropane	0.0250	ND	0.0279	0.0246	112	98.3	1	71.5-134			12.8	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0273	0.0239	109	95.5	1	62.7-133			13.5	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0284	0.0241	114	96.3	1	60.5-137			16.5	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0281	0.0238	112	95.3	1	67.9-134			16.4	20
Vinyl chloride	0.0250	ND	0.0257	0.0208	103	83.3	1	44.3-143		J3	20.9	20
Xylenes, Total	0.0750	ND	0.0844	0.0736	113	98.2	1	65.6-133			13.7	20
(S) Toluene-d8					*98.4*	*98.8*		*90.0-115*				
(S) Dibromofluoromethane					*100*	*97.6*		*79.0-121*				
(S) 4-Bromofluorobenzene					*96.7*	*93.8*		*80.1-120*				

Method Blank (MB)

(MB) 03/10/16 06:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100

Method Blank (MB)

(MB) 03/10/16 06:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
Methyl tert-butyl ether	U		0.000367	0.00100
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Naphthalene	U		0.00100	0.00500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
n-Propylbenzene	U		0.000349	0.00100
Tetrachloroethene	U		0.000372	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
Toluene	U		0.000780	0.00500
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
Vinyl chloride	U		0.000259	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*104*			*90.0-115*
(S) Dibromofluoromethane	*103*			*79.0-121*
(S) 4-Bromofluorobenzene	*98.4*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 05:15 • (LCSD) 03/10/16 05:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acrolein	0.125	0.199	0.194	159	155	40.4-172			2.61	20
Acetone	0.125	0.110	0.103	87.8	82.6	28.7-175			6.07	20.9
Acrylonitrile	0.125	0.147	0.138	117	111	58.2-145			5.91	20
Benzene	0.0250	0.0256	0.0247	103	99.0	73.0-122			3.50	20
Bromobenzene	0.0250	0.0255	0.0250	102	100	81.5-115			1.95	20
Bromodichloromethane	0.0250	0.0269	0.0252	107	101	75.5-121			6.25	20
Bromoform	0.0250	0.0250	0.0245	99.9	97.9	71.5-131			1.96	20
Bromomethane	0.0250	0.0285	0.0268	114	107	22.4-187			6.04	20
n-Butylbenzene	0.0250	0.0291	0.0283	117	113	75.9-134			3.06	20
sec-Butylbenzene	0.0250	0.0276	0.0257	111	103	80.6-126			7.35	20
tert-Butylbenzene	0.0250	0.0272	0.0255	109	102	79.3-127			6.11	20
Carbon tetrachloride	0.0250	0.0263	0.0242	105	96.8	70.9-129			8.49	20
Chlorobenzene	0.0250	0.0257	0.0249	103	99.7	79.7-122			2.98	20
Chlorodibromomethane	0.0250	0.0260	0.0253	104	101	78.2-124			2.85	20
Chloroethane	0.0250	0.0294	0.0270	118	108	41.2-153			8.54	20
2-Chloroethyl vinyl ether	0.125	0.157	0.152	126	122	23.4-162			3.28	23.5
Chloroform	0.0250	0.0277	0.0256	111	102	73.2-125			7.82	20
Chloromethane	0.0250	0.0233	0.0209	93.3	83.8	55.8-134			10.8	20
2-Chlorotoluene	0.0250	0.0266	0.0251	106	100	76.4-125			5.87	20
4-Chlorotoluene	0.0250	0.0268	0.0258	107	103	81.5-121			3.67	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0255	0.0255	102	102	64.8-131			0.0800	20
1,2-Dibromoethane	0.0250	0.0253	0.0260	101	104	79.8-122			2.47	20
Dibromomethane	0.0250	0.0279	0.0262	112	105	79.5-118			6.49	20
1,2-Dichlorobenzene	0.0250	0.0277	0.0264	111	106	84.7-118			4.80	20
1,3-Dichlorobenzene	0.0250	0.0261	0.0250	104	99.9	77.6-127			4.27	20
1,4-Dichlorobenzene	0.0250	0.0268	0.0257	107	103	82.2-114			4.08	20
Dichlorodifluoromethane	0.0250	0.0236	0.0217	94.5	86.9	56.0-134			8.48	20
1,1-Dichloroethane	0.0250	0.0270	0.0252	108	101	71.7-127			7.05	20
1,2-Dichloroethane	0.0250	0.0265	0.0256	106	102	65.3-126			3.50	20
1,1-Dichloroethene	0.0250	0.0307	0.0294	123	118	59.9-137			4.37	20
cis-1,2-Dichloroethene	0.0250	0.0274	0.0260	110	104	77.3-122			5.23	20
trans-1,2-Dichloroethene	0.0250	0.0275	0.0261	110	104	72.6-125			5.42	20
1,2-Dichloropropane	0.0250	0.0263	0.0247	105	98.8	77.4-125			6.15	20
1,1-Dichloropropene	0.0250	0.0267	0.0254	107	101	72.5-127			5.16	20
cis-1,3-Dichloropropene	0.0250	0.0270	0.0268	108	107	77.7-124			0.710	20
1,3-Dichloropropane	0.0250	0.0252	0.0253	101	101	80.6-115			0.170	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 05:15 • (LCSD) 03/10/16 05:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0272	0.0268	109	107	73.5-127			1.57	20
2,2-Dichloropropane	0.0250	0.0297	0.0267	119	107	61.3-134			10.8	20
Di-isopropyl ether	0.0250	0.0261	0.0244	104	97.7	65.1-135			6.56	20
Ethylbenzene	0.0250	0.0258	0.0258	103	103	80.9-121			0.0200	20
Hexachloro-1,3-butadiene	0.0250	0.0278	0.0267	111	107	73.7-133			3.89	20
Isopropylbenzene	0.0250	0.0261	0.0255	104	102	81.6-124			2.27	20
p-Isopropyltoluene	0.0250	0.0285	0.0267	114	107	77.6-129			6.44	20
Methylene Chloride	0.0250	0.0267	0.0245	107	97.8	69.5-120			8.96	20
2-Butanone (MEK)	0.125	0.109	0.106	87.3	84.5	46.4-155			3.26	20
Methyl tert-butyl ether	0.0250	0.0267	0.0252	107	101	70.1-125			5.87	20
4-Methyl-2-pentanone (MIBK)	0.125	0.139	0.134	112	107	63.3-138			4.05	20
Naphthalene	0.0250	0.0254	0.0246	102	98.4	69.7-134			3.35	20
n-Propylbenzene	0.0250	0.0269	0.0261	108	104	81.9-122			3.24	20
Styrene	0.0250	0.0270	0.0261	108	104	79.9-124			3.35	20
1,1,1,2-Tetrachloroethane	0.0250	0.0260	0.0250	104	100	78.5-125			3.78	20
1,1,2,2-Tetrachloroethane	0.0250	0.0262	0.0249	105	99.5	79.3-123			5.04	20
Tetrachloroethene	0.0250	0.0245	0.0243	97.9	97.2	73.5-130			0.670	20
Toluene	0.0250	0.0255	0.0240	102	96.0	77.9-116			6.15	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0362	0.0327	145	131	62.0-141	J4		10.1	20
1,2,4-Trichlorobenzene	0.0250	0.0283	0.0264	113	106	76.1-136			6.95	20
1,2,3-Trichlorobenzene	0.0250	0.0268	0.0250	107	100	75.7-134			6.63	20
1,1,1-Trichloroethane	0.0250	0.0278	0.0253	111	101	71.1-129			9.48	20
1,1,2-Trichloroethane	0.0250	0.0257	0.0250	103	100	81.6-120			2.93	20
Trichloroethene	0.0250	0.0253	0.0244	101	97.7	79.5-121			3.43	20
Trichlorofluoromethane	0.0250	0.0293	0.0260	117	104	49.1-157			11.9	20
1,2,3-Trichloropropane	0.0250	0.0277	0.0264	111	105	74.9-124			4.82	20
1,2,3-Trimethylbenzene	0.0250	0.0274	0.0263	110	105	79.9-118			4.18	20
1,2,4-Trimethylbenzene	0.0250	0.0268	0.0252	107	101	79.0-122			6.42	20
1,3,5-Trimethylbenzene	0.0250	0.0278	0.0260	111	104	81.0-123			6.69	20
Vinyl chloride	0.0250	0.0267	0.0249	107	99.5	61.5-134			7.23	20
Xylenes, Total	0.0750	0.0771	0.0753	103	100	79.2-122			2.40	20
(S) Toluene-d8				*107*	*102*	*90.0-115*				
(S) Dibromofluoromethane				*106*	*99.9*	*79.0-121*				
(S) 4-Bromofluorobenzene				*95.9*	*97.1*	*80.1-120*				

L822283-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 11:52 • (MS) 03/10/16 08:30 • (MSD) 03/10/16 08:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00108	0.0694	0.0786	54.6	62.0	1	25.0-156			12.5	21.5
Acrolein	0.125	ND	0.141	0.171	112	137	1	34.0-194			19.3	21.5
Acrylonitrile	0.125	ND	0.135	0.149	108	119	1	55.9-161			10.3	20
Benzene	0.0250	ND	0.0248	0.0276	99.0	111	1	58.6-133			11.0	20
Bromodichloromethane	0.0250	ND	0.0256	0.0276	102	110	1	69.2-127			7.35	20
Bromobenzene	0.0250	ND	0.0261	0.0284	104	113	1	70.6-125			8.53	20
Bromoform	0.0250	ND	0.0249	0.0278	99.7	111	1	66.3-140			10.9	20
Bromomethane	0.0250	ND	0.0276	0.0303	110	121	1	16.6-183			9.47	20.5
n-Butylbenzene	0.0250	ND	0.0267	0.0290	107	116	1	64.8-145			8.23	20
sec-Butylbenzene	0.0250	ND	0.0272	0.0295	109	118	1	66.8-139			7.95	20
tert-Butylbenzene	0.0250	ND	0.0262	0.0292	105	117	1	67.1-138			11.1	20
Carbon tetrachloride	0.0250	ND	0.0247	0.0276	98.7	110	1	60.6-139			11.1	20
Chlorobenzene	0.0250	ND	0.0262	0.0279	105	112	1	70.1-130			6.33	20
Chlorodibromomethane	0.0250	ND	0.0270	0.0295	108	118	1	71.6-132			8.83	20
Chloroethane	0.0250	ND	0.0285	0.0309	114	123	1	33.3-155			8.16	20
2-Chloroethyl vinyl ether	0.125	ND	ND	ND	1.48	1.07	1	5.00-149	J6	J6	32.0	40
Chloroform	0.0250	ND	0.0254	0.0284	102	114	1	66.1-133			11.2	20
Chloromethane	0.0250	ND	0.0225	0.0251	90.1	100	1	40.7-139			10.7	20
2-Chlorotoluene	0.0250	ND	0.0265	0.0280	106	112	1	66.9-134			5.56	20
4-Chlorotoluene	0.0250	ND	0.0265	0.0292	106	117	1	66.8-134			9.62	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0238	0.0273	95.1	109	1	63.9-142			13.7	20.2
1,2-Dibromoethane	0.0250	ND	0.0269	0.0291	107	116	1	73.8-131			7.93	20
Dibromomethane	0.0250	ND	0.0264	0.0284	106	114	1	72.8-127			7.21	20
1,2-Dichlorobenzene	0.0250	ND	0.0259	0.0284	104	113	1	77.4-127			8.95	20
1,3-Dichlorobenzene	0.0250	ND	0.0257	0.0279	103	111	1	67.9-136			7.97	20
1,4-Dichlorobenzene	0.0250	ND	0.0252	0.0275	101	110	1	74.4-123			8.81	20
Dichlorodifluoromethane	0.0250	ND	0.0262	0.0299	105	120	1	42.2-146			13.2	20
1,1-Dichloroethane	0.0250	0.000343	0.0252	0.0280	99.5	111	1	64.0-134			10.4	20
1,2-Dichloroethane	0.0250	ND	0.0256	0.0290	103	116	1	60.7-132			12.4	20
1,1-Dichloroethene	0.0250	0.0227	0.0440	0.0487	85.2	104	1	48.8-144			10.3	20
cis-1,2-Dichloroethene	0.0250	0.000613	0.0259	0.0287	101	112	1	60.6-136			10.3	20
trans-1,2-Dichloroethene	0.0250	ND	0.0264	0.0288	106	115	1	61.0-132			8.60	20
1,2-Dichloropropane	0.0250	ND	0.0253	0.0267	101	107	1	69.7-130			5.15	20
1,1-Dichloropropene	0.0250	ND	0.0260	0.0293	104	117	1	61.5-136			12.1	20
cis-1,3-Dichloropropene	0.0250	ND	0.0262	0.0281	105	112	1	71.1-129			6.81	20
1,3-Dichloropropane	0.0250	ND	0.0262	0.0279	105	112	1	74.3-123			6.50	20

L822283-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 11:52 • (MS) 03/10/16 08:30 • (MSD) 03/10/16 08:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0267	0.0291	107	116	1	66.3-136			8.58	20
2,2-Dichloropropane	0.0250	ND	0.0264	0.0298	105	119	1	54.9-142			12.4	20
Ethylbenzene	0.0250	ND	0.0266	0.0284	106	114	1	62.7-136			6.71	20
Di-isopropyl ether	0.0250	ND	0.0234	0.0260	93.8	104	1	59.9-140			10.2	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0250	0.0287	100	115	1	61.1-144			13.7	20.1
Isopropylbenzene	0.0250	ND	0.0256	0.0290	102	116	1	67.4-136			12.3	20
p-Isopropyltoluene	0.0250	ND	0.0280	0.0310	112	124	1	62.8-143			10.1	20
Methylene Chloride	0.0250	ND	0.0248	0.0277	99.3	111	1	61.5-125			10.8	20
2-Butanone (MEK)	0.125	ND	0.0843	0.0985	67.5	78.8	1	45.0-156			15.5	20.8
Methyl tert-butyl ether	0.0250	ND	0.0241	0.0268	96.6	107	1	61.4-136			10.4	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.128	0.137	102	110	1	60.7-150			7.34	20
Naphthalene	0.0250	ND	0.0232	0.0265	92.6	106	1	61.8-143			13.6	20
n-Propylbenzene	0.0250	ND	0.0272	0.0296	109	118	1	63.2-139			8.37	20
Styrene	0.0250	ND	0.0272	0.0291	109	117	1	68.2-133			7.02	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0257	0.0285	103	114	1	64.9-145			10.6	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0263	0.0288	105	115	1	70.5-132			9.00	20
Tetrachloroethene	0.0250	ND	0.0254	0.0283	102	113	1	57.4-141			10.8	20
Toluene	0.0250	ND	0.0252	0.0265	101	106	1	67.8-124			5.06	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0331	0.0368	133	147	1	53.7-150			10.6	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0240	0.0274	96.2	110	1	65.7-143			13.1	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0247	0.0273	98.6	109	1	67.0-146			10.1	20
1,1,1-Trichloroethane	0.0250	ND	0.0262	0.0295	105	118	1	58.7-134			11.6	20
1,1,2-Trichloroethane	0.0250	ND	0.0262	0.0280	105	112	1	74.1-130			6.75	20
Trichloroethene	0.0250	0.000370	0.0258	0.0284	102	112	1	48.9-148			9.72	20
Trichlorofluoromethane	0.0250	ND	0.0280	0.0312	112	125	1	39.9-165			10.9	20
1,2,3-Trichloropropane	0.0250	ND	0.0273	0.0298	109	119	1	71.5-134			8.72	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0260	0.0289	104	115	1	62.7-133			10.7	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0271	0.0292	108	117	1	60.5-137			7.62	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0268	0.0287	107	115	1	67.9-134			6.65	20
Vinyl chloride	0.0250	0.00120	0.0279	0.0312	107	120	1	44.3-143			11.2	20
Xylenes, Total	0.0750	ND	0.0793	0.0851	106	114	1	65.6-133			7.08	20
(S) Toluene-d8					*102*	*100*		*90.0-115*				
(S) Dibromofluoromethane					*101*	*102*		*79.0-121*				
(S) 4-Bromofluorobenzene					*98.7*	*99.9*		*80.1-120*				

Method Blank (MB)

(MB) 03/10/16 22:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000331	0.00100
Ethylbenzene	U		0.000384	0.00100
Naphthalene	U		0.00100	0.00500
Xylenes, Total	U		0.00106	0.00300

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 21:04 • (LCSD) 03/10/16 21:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0253	0.0258	101	103	73.0-122			1.79	20
Ethylbenzene	0.0250	0.0222	0.0229	88.8	91.5	80.9-121			3.04	20
Naphthalene	0.0250	0.0221	0.0216	88.5	86.4	69.7-134			2.49	20
Xylenes, Total	0.0750	0.0662	0.0684	88.3	91.2	79.2-122			3.23	20

L822155-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 23:44 • (MS) 03/10/16 22:34 • (MSD) 03/10/16 22:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	ND	0.0196	0.0193	78.5	77.2	1	58.6-133			1.70	20
Ethylbenzene	0.0250	ND	0.0184	0.0185	73.5	74.2	1	62.7-136			0.910	20
Naphthalene	0.0250	ND	0.0214	0.0213	85.4	85.3	1	61.8-143			0.150	20
Xylenes, Total	0.0750	ND	0.0557	0.0546	74.2	72.8	1	65.6-133			1.95	20

Method Blank (MB)

(MB) 03/07/16 00:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000140	0.0000500
Acenaphthene	U		0.0000100	0.0000500
Acenaphthylene	U		0.0000120	0.0000500
Benzo(a)anthracene	0.00000625		0.00000410	0.0000500
Benzo(a)pyrene	U		0.0000116	0.0000500
Benzo(b)fluoranthene	U		0.00000212	0.0000500
Benzo(g,h,i)perylene	U		0.00000227	0.0000500
Benzo(k)fluoranthene	U		0.0000136	0.0000500
Chrysene	U		0.0000108	0.0000500
Dibenz(a,h)anthracene	U		0.00000396	0.0000500
Fluoranthene	U		0.0000157	0.0000500
Fluorene	U		0.00000850	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000148	0.0000500
Naphthalene	0.0000213		0.0000198	0.000250
Phenanthrene	U		0.00000820	0.0000500
Pyrene	U		0.0000117	0.0000500
1-Methylnaphthalene	U		0.00000821	0.000250
2-Methylnaphthalene	U		0.00000902	0.000250
2-Chloronaphthalene	U		0.00000647	0.000250
(S) Nitrobenzene-d5	*58.8*			*33.8-179*
(S) 2-Fluorobiphenyl	*67.2*			*55.5-150*
(S) p-Terphenyl-d14	*66.5*			*46.2-163*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/06/16 23:55 • (LCSD) 03/07/16 00:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	0.00174	0.00179	87.1	89.4	68.9-153			2.60	20
Acenaphthene	0.00200	0.00170	0.00172	84.8	85.8	67.7-153			1.19	20
Acenaphthylene	0.00200	0.00174	0.00176	86.9	88.0	66.9-141			1.26	20
Benzo(a)anthracene	0.00200	0.00172	0.00174	86.1	86.9	63.1-147			0.940	20
Benzo(a)pyrene	0.00200	0.00169	0.00173	84.7	86.7	62.2-150			2.40	20
Benzo(b)fluoranthene	0.00200	0.00167	0.00165	83.6	82.3	58.4-148			1.63	20
Benzo(g,h,i)perylene	0.00200	0.00155	0.00157	77.6	78.3	57.4-152			0.880	20
Benzo(k)fluoranthene	0.00200	0.00165	0.00170	82.3	84.9	60.5-154			3.12	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/06/16 23:55 • (LCSD) 03/07/16 00:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chrysene	0.00200	0.00167	0.00169	83.7	84.3	64.8-155			0.650	20
Dibenz(a,h)anthracene	0.00200	0.00162	0.00166	81.1	83.1	53.5-153			2.46	20
Fluoranthene	0.00200	0.00169	0.00172	84.5	86.1	68.6-153			1.88	20
Fluorene	0.00200	0.00166	0.00166	83.1	83.1	67.3-141			0.0700	20
Indeno(1,2,3-cd)pyrene	0.00200	0.00166	0.00167	82.8	83.6	57.0-155			0.970	20
Naphthalene	0.00200	0.00165	0.00169	82.5	84.5	66.7-135			2.40	20
Phenanthrene	0.00200	0.00160	0.00163	79.9	81.4	64.3-143			1.91	20
Pyrene	0.00200	0.00170	0.00170	85.1	85.0	60.2-154			0.130	20
1-Methylnaphthalene	0.00200	0.00164	0.00169	82.0	84.5	68.3-144			3.04	20
2-Methylnaphthalene	0.00200	0.00167	0.00171	83.6	85.3	67.6-143			2.03	20
2-Chloronaphthalene	0.00200	0.00171	0.00173	85.7	86.5	69.7-140			0.920	20
(S) Nitrobenzene-d5				*75.2*	*75.1*	*33.8-179*				
(S) 2-Fluorobiphenyl				*83.4*	*83.8*	*55.5-150*				
(S) p-Terphenyl-d14				*76.8*	*75.5*	*46.2-163*				

L821297-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/07/16 03:47 • (MS) 03/07/16 04:09 • (MSD) 03/07/16 04:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	0.0102	0.0111	0.0122	44.5	99.5	1	68.9-153	V		9.42	20
Acenaphthene	0.00200	0.136	0.131	0.141	0.000	209	1	67.7-141	V	V	7.30	20
Acenaphthylene	0.00200	0.0479	0.0466	0.0498	0.000	96.5	1	66.9-141	V		6.67	20
Benzo(a)anthracene	0.00200	0.000136	0.00187	0.00202	86.6	94.3	1	63.1-147			7.90	20
Benzo(a)pyrene	0.00200	0.0000217	0.00169	0.00178	83.3	87.9	1	62.2-150			5.27	20
Benzo(b)fluoranthene	0.00200	0.0000204	0.00178	0.00169	88.1	83.5	1	58.4-148			5.29	20
Benzo(g,h,i)perylene	0.00200	0.0000115	0.00151	0.00157	74.8	78.0	1	57.4-152			4.21	20
Benzo(k)fluoranthene	0.00200	0.00000533	0.00148	0.00169	73.5	84.4	1	60.5-154			13.8	20
Chrysene	0.00200	0.0000953	0.00170	0.00184	80.3	87.3	1	64.8-155			7.93	20
Dibenz(a,h)anthracene	0.00200	0.00000278	0.00158	0.00163	78.8	81.5	1	53.5-153			3.39	20
Fluoranthene	0.00200	0.00319	0.00464	0.00508	72.2	94.3	1	68.6-153			9.08	20
Fluorene	0.00200	0.0302	0.0301	0.0324	0.000	112	1	67.3-141	V		7.60	20
Indeno(1,2,3-cd)pyrene	0.00200	0.00000823	0.00159	0.00165	79.3	82.3	1	57.0-155			3.74	20
Naphthalene	0.00200	0.160	0.147	0.159	0.000	0.000	1	66.7-135	V	V	8.07	20
Phenanthrene	0.00200	0.0474	0.0450	0.0503	0.000	141	1	64.3-143	V		11.0	20
Pyrene	0.00200	0.00453	0.00573	0.00643	59.6	94.9	1	60.2-154	J6		11.6	20

L821297-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/07/16 03:47 • (MS) 03/07/16 04:09 • (MSD) 03/07/16 04:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1-Methylnaphthalene	0.00200	0.607	0.563	0.609	0.000	115	1	68.3-144	V		7.96	20
2-Methylnaphthalene	0.00200	0.00186	0.00353	0.00378	83.1	95.9	1	67.6-143			6.99	20
2-Chloronaphthalene	0.00200	ND	0.00168	0.00177	84.0	88.4	1	69.7-140			5.06	20
(S) Nitrobenzene-d5					*85.2*	*88.5*		*33.8-179*				
(S) 2-Fluorobiphenyl					*79.7*	*83.7*		*55.5-150*				
(S) p-Terphenyl-d14					*75.1*	*80.7*		*46.2-163*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

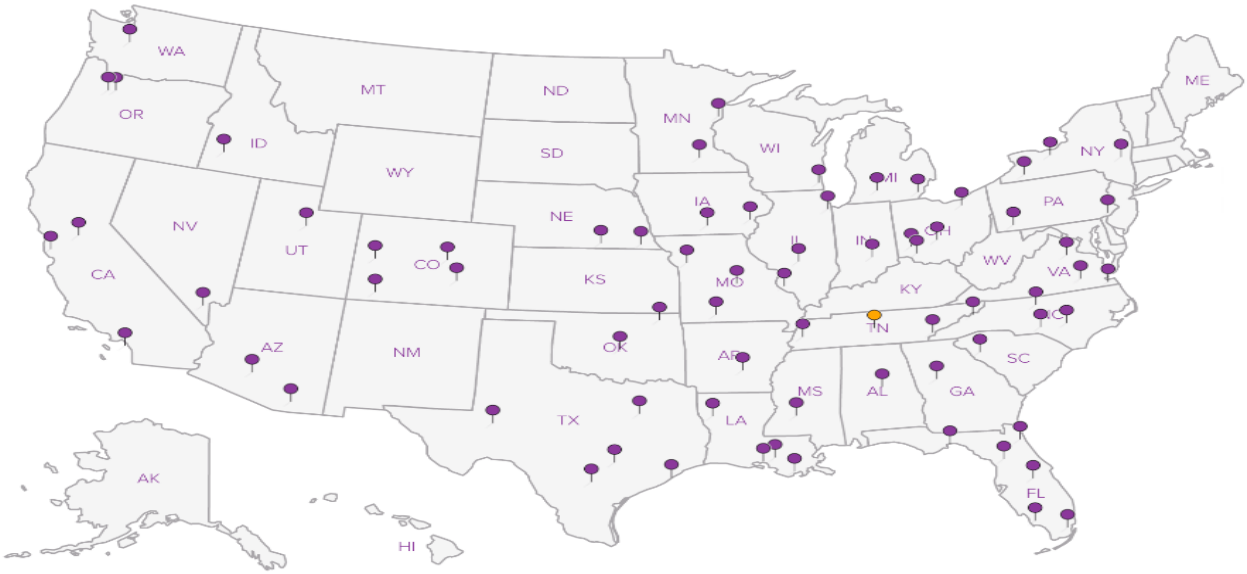
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 [5]	1461.02
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC 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. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:
USA Environmental, LP
17301 W. Colfax Ave., Suite 152
Golden, CO 80401

Billing Information:

Report to: ~~Andrew Stone~~ Craig Lugowski
Email To: clugowski ~~AStone~~@usaenviro.com
Project Description: 13th Street Plaza
City/State Collected: Boulder, CO
Phone: 303-~~954-4623~~ 242-5050
Fax:
Client Project #
Lab Project #
Collected by (print): Andrew Stone
Site/Facility ID #
P.O. #
Collected by (signature): Andrew Stone
Immediately Packed on Ice N ___ Y X
Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%
Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Chain of Custody Page 1 of 2

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L821297
B084

Acctnum: USAENVGCO
Template:
Prelogin:
TSR: Darren Reeder
Cooler:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Ctrs	VOC 8260 (3) 40mL Amber - HCl	PAHSIM (8270) (3) 40mL Amber - No Pres	MS/MSD								Rem./Contaminant	Sample # (lab only)
COB-MW1-030116	Grab	GW	NA	3/1/16	1215	6	X	X										-01
COB-MW2-030116		GW		3/1/16	1238	6	X	X										02
COB-MW3R-030216		GW		3/2/16	1112	6	X	X										03
COB-MW4-030116		GW		3/1/16	1515	6	X	X										04
COB-MW5-030116		GW		3/1/16	1450	6	X	X										05
COB-MW6-030216		GW		3/2/16	1025	6	X	X										06
COB-MW7-030216		GW		3/2/16	0950	~~6~~ 12	X	X	X									07
COB-MW8R-030216		GW		3/2/16	1130	6	X	X										08
COB-MW10-030216		GW		3/2/16	0915	6	X	X										09
COB-MW11-030116		GW		3/1/16	1405	6	X	X										10

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ____

pH ____ Temp ____ 6503715052 14

Remarks:

Flow ____ Other ____

Hold #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
Andrew Stone	3/2/16	1300	FedEx, Boulder, CO		Toll
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 21°C Bottles Received: 1024 TB	COC Seal Intact: ✓ Y ___N ___NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-3-16 Time: 0900	pH Checked: NCF:

Company Name/Address:

USA Environmental, LP

17301 W. Colfax Ave., Suite 152
Golden, CO 80401

Billing Information:

Report to: ~~Andrew Stone~~ Craig Lugowski

Email To: clugowski ~~AStone~~@usaenviro.com

Project Description: 13th Street Plaza

City/State Collected: Boulder, CO

Phone: 303-~~964-1023~~ Fax: 242-8050

Client Project #

Lab Project #

Collected by (print): Andrew Stone

Site/Facility ID #

P.O. #

Collected by (signature): Andrew Stone

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LAB SCIENCES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L821297

Table #

Acctnum: USAENVGCO

Template:

Prelogin:

TSR: Darren Reeder

Cooler:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC 8260 (3) 40mL Amber - HCl	PAHSIM (8270) (3) 40mL Amber - No Pres								Rem./Contaminant	Sample # (lab only)
COB-MW12-030216	Grab	GW	NA	3/2/16	1140	6	X	X									11
COB-MW13-030216		GW		3/2/16	0850	6	X	X									12
COB-MW14-030116		GW		3/1/16	1340	6	X	X									13
COB-MW15-030216		GW		3/2/16	1045	6	X	X									14
COB-MW16-030216		GW		3/2/16	1150	6	X	X									15
COB-FIELDDUP-030216		GW		3/2/16	0000	6	X	X									16
~~MS/MSD~~		GW				~~6~~											
		GW				6											
		GW				6											
		GW				6											

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Flow _____ Other _____

L503715052 16

Remarks:

Hold #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____
Andrew Stone	3/2/16	1300	FedEx, Boulder, CO	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.1°C Bottles Received: 102+TB
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-3-16 Time: 0900

Condition: (lab use only) TDI

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

REMEDIAL ALTERNATIVES ANALYSIS

13th Street Plaza Former MGP Site
Boulder, Colorado

Prepared For:

CITY OF BOULDER
BOULDER, COLORADO

Prepared By:

XDD ENVIRONMENTAL

22 MARIN WAY, UNIT 3
STRATHAM, NH 03885

June 2016

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Table 1 Remedial Alternatives Evaluation Summary

APPENDICES

Appendix A Bench Scale Treatability Report (2016)

1.0 INTRODUCTION

XDD Environmental (XDD) has evaluated a range of potential remedial alternatives for treating residual contamination in soil and groundwater at the 13th Street Plaza Former Manufactured Gas Plant (MGP) located in Boulder, Colorado (Site). This report includes the results of that evaluation and presents a recommended remedial alternative.

2.0 BACKGROUND INFORMATION

The Site was formerly occupied by Federal Gas Company and operated as a MGP from approximately 1902 to 1952. The City of Boulder (City) now owns the 1.5-acre Site. The Boulder Dushanbe Tea House, a public plaza, and a paved parking area currently occupy the Site. The primary contaminants of concern (COCs) at the Site are associated with historic MGP-related operations and include sorbed and dissolved phase volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs), primarily benzene, ethylbenzene, toluene, xylene (BTEX), and naphthalene.

The BTEX compounds listed above are the most soluble of the VOCs and are thus the most likely to dissolve in groundwater. Naphthalene, the most soluble SVOC, will also dissolve in groundwater in the vicinity of the remaining MGP residuals in soil. The coal tars from both coal carbonization and carburetted water gas processes (both common MGP operations), however, are complex mixtures of organic chemicals (VOCs and SVOCs). For this reason, COCs associated with MGP sites can persist in groundwater and soil for decades if left untreated.

In January 2014, a preliminary response action was implemented at the Site, which included demolition and removal of impacted infrastructure associated with the MGP operations, excavation, removal and disposal of impacted soils, and capture and removal of non-aqueous phase liquids (NAPL) and impacted groundwater. These activities were effective at removing most of the accessible source mass material associated with the Site COCs. However, further Site excavation is not possible due to existing infrastructure on the Site. MGP-impacted soils and groundwater remain in certain non-accessible locations, and benzene and naphthalene concentrations in Site groundwater continue to exceed the Colorado Department of Public Health and Environment (CDPHE) Basic Standards for Groundwater.

A bench-scale treatability study was conducted in April 2014 to evaluate the efficacy of hydrogen peroxide to treat impacted Site soils. Based on positive bench-scale test results, a pilot scale in situ chemical oxidation (ISCO) application using hydrogen peroxide was performed at the Site in September 2014 to assess field-scale effectiveness and implementability.

XDD has been retained to evaluate a range of potential remedial alternatives to address MGP-related impacts remaining at the Site. This report identifies and evaluates several dynamic remedial alternatives that could prove to be cost effective in treating the remaining Site COCs and achieve applicable or relevant and appropriate requirements (ARARs) associated with clean-up objectives. For the reasons detailed in this report, XDD ultimately recommends ISCO using sodium persulfate to treat Site COCs.

3.0 PROJECT OBJECTIVE

The overall project objective for the Site is to eliminate existing soil and groundwater impacts associated with historic MGP operations, so as to meet cleanup goals and avoid the significant financial burden and risks associated with long-term groundwater treatment and associated operation and maintenance (O&M).

4.0 NCP EVALUATION CRITERIA

A range of remedial alternatives are evaluated in this report based on recognized remedial technologies that have been successfully implemented at MGP sites with similar site characteristics and impacted media. The remedial alternatives presented in this report were evaluated based on the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) National Contingency Plan (NCP).

Under the NCP, the selection of the remedy is based on the nine evaluation criteria, which are part of the NCP (Code of Federal Regulations, Title 40, Section 300.430 [40CFR300.430(e)(9)]). These criteria are categorized into the three groups discussed below.

1. **Threshold Criteria** - The following two criteria must be satisfied in order for an alternative to be eligible for selection. The threshold criteria are:
   - **Overall protection of human health and the environment**: Alternatives must be assessed for adequate protection of human health and the environment. Overall protection draws on the assessments of other evaluation criteria, especially long-term effectiveness and permanence, short-term effectiveness, and compliance with ARARs. The evaluation focuses on whether a specific alternative achieves adequate protection, how risks are eliminated, reduced, or controlled, and whether remedial action objectives would be achieved.
   - **Compliance with ARARs:** Alternatives must be assessed to determine whether they attain applicable and appropriate requirements under federal and state environmental laws or facility siting laws. The key ARARs for this Site are the applicable Colorado groundwater standards.

2. **Primary Balancing Criteria** - The five balancing criteria are used to weigh the relative merits of alternatives. The five criteria that are included are:
   - **Long-term effectiveness and permanence:** Alternatives must be assessed for the long-term effectiveness and permanence they offer, along with the degree of certainty that the alternative will prove successful. Factors that will be considered as appropriate are the magnitude of any residual risk and the adequacy and reliability of the controls being evaluated.
   - **The reduction of toxicity, mobility, or volume through treatment:** The degree to which the alternative employs recycling or treatment that reduces the toxicity, mobility, or volume will be assessed, including how treatment is used to address the principal threats posed by the

Site. Factors that are considered, as appropriate, include the treatment processes that the alternative employs, the media they would treat, and threats addressed; the amount of hazardous substances, pollutants, or contaminants that will be destroyed, treated, or recycled; the degree of expected reduction in toxicity, mobility, or volume as a result of treatment; the degree to which the treatment is irreversible. The type and quantity of residuals that would remain following treatment, considering the persistence, toxicity, mobility, and bioaccumulation capacity of the contaminants of concern and impacted media; and the degree to which treatment reduces the inherent hazards posed by principal threats at the site.

- **Short-term effectiveness:** The assessment of short-term effectiveness during construction and implementation until the cleanup goals are met includes consideration of short-term risks that might be posed to the community during implementation; potential impacts to and protection of the workers during remedial actions; potential environmental impacts of the remedial action and the effectiveness and reliability of mitigative measures during implementation; and time until the cleanup goals are achieved.
- **Implementability:** The ease or difficulty of implementing the alternatives will be assessed by considering the following types of factors, as appropriate: technical feasibility, administrative feasibility, and availability of services and materials, including the availability of adequate off-site treatment, storage capacity, disposal capacity and services, the availability of necessary equipment and specialists, provisions to ensure any necessary additional resources, and availability of prospective technologies.
- **Cost:** For the detailed cost analysis of alternatives, the expenditures required to complete each measure are estimated in terms both of capital and annual operation and maintenance (O&M) costs. Capital costs consist of direct and indirect costs. Annual O&M costs are the post-construction costs required to ensure the continued effectiveness of the remedial action. Components of annual O&M cost include the cost of operating labor, maintenance materials and labor, auxiliary materials and energy, residue disposal, purchased services, administration, insurance, taxes, licensing, maintenance reserve and contingency funds, rehabilitation, monitoring, and periodic site reviews. The actual cost of the project would depend on the final scope and design of the selected remedial action, the schedule of implementation, competitive market conditions, and other variables.

3. **Modifying Criteria** – The last two criteria are modifying criteria that are to be evaluated once a preferred remedy has been identified.
   - **State acceptance**
   - **Community acceptance**

Detailed analyses of the remedial alternatives using the two “threshold criteria” and the five “balancing criteria” and a comparative analysis of the remedial alternatives are presented below.

5.0 IDENTIFICATION AND EVALUATION OF REMEDIAL ALTERNATIVES

5.1 PRELIMINARY IDENTIFICATION AND SCREENING OF REMEDIAL TECHNOLOGIES

The following remedial technologies are commonly considered for MGP site remediation and were preliminarily identified for consideration:

- Soil Removal and Disposal (ex situ)
- Permeable Reactive Barrier (PRB)
- Air Sparging/Soil Vapor Extraction
- Thermal Treatment
- Groundwater Pumping/Chemical Treatment
- Enhanced In Situ Bioremediation
- In Situ Chemical Oxidation

Certain of these remedial technologies were screened out as infeasible or ineffective alternatives. The following sections include a brief summary on each eliminated technology and an explanation of the reason(s) for elimination.

5.1.1 *Soil Removal and Disposal (Ex Situ)*

As part of the earlier cleanup activities conducted at the Site, impacted soils were excavated and transported off-site for disposal. Refer to the *Voluntary Cleanup Plan Interim Remediation Report* (Interim Report) prepared by USA Environment LP, dated July 30, 2014 (USA, 2014) for details of these activities. This approach is typically used at MGP sites to remove highly impacted source mass soils prior to further treatment of residuals in soils and groundwater. A significant portion of COC mass was removed during these activities; however, as discussed above, impacted soils and groundwater do remain on the Site. Due to the access limitations associated with adjacent structures, slope stability, infrastructure, and business operations, further excavation and soil removal is not feasible and therefore this remedy will not be evaluated further. The initial removal of the residual source materials and subgrade structures of the MGP operations will facilitate implementation of other technologies to address the remaining residual impacts, and expedite completion of the cleanup.

5.1.2 *Permeable Reactive Barrier*

A permeable reactive barrier (PRB) is typically installed as a secondary treatment option to treat down-gradient plume concentrations. A subsurface emplacement of reactive media (either via treatment trench or through injection points) is applied perpendicular to the groundwater flow path. The dissolved contaminant plume is intercepted and passively remediated as groundwater naturally flows through the low resistant media. A PRB could potentially be effective at reducing COC impacts downgradient of the reactive media, but the source area or areas remain unaddressed. Implementation of a PRB requires a highly comprehensive hydrologic characterization, which potentially requires significant additional

subsurface investigation and increased design costs. Maintenance costs of the PRB (including monitoring and eventual replacement) will likely be high. In addition, the installation of PRB and associated source removal are not technically feasible at the Site because of existing Site infrastructure. Therefore, this alternative is eliminated from further consideration.

5.1.3 *Air Sparging/Soil Vapor Extraction*

Air sparging/soil vapor extraction (AS/SVE) is the volatilization of VOCs by sparging of air in groundwater, extracting soil vapor, and ex situ treatment of volatilized compounds in the extracted vapor. AS/SVE is a proven technology that could effectively reduce contamination in the unsaturated zone. However, it would not be effective for removal of VOCs at this Site due to the fact that most of the remaining VOCs are in the saturated zone. Therefore, this alternative is eliminated from further consideration.

5.1.4 *Thermal Treatment*

Thermal treatment is heating the subsurface by electrical resistance, radio frequency, thermal conduction, or by injection of hot water, hot air or steam to increase mobility of contaminants (e.g. decreasing the viscosity or vaporizing the contaminant). The mobilized/vaporized contaminants are then extracted from the subsurface via extraction wells for ex situ treatment.

Thermally enhanced SVE is a proven technology used to treat a wide variety of contaminants. However, it is not considered effective for removal of VOCs from the saturated zone, which as discussed above is where the majority of the remaining COCs are located. Therefore, this alternative is eliminated from further consideration.

5.1.5 *Groundwater Pumping/Chemical Treatment*

Pump-and-treat is a common method used for remediating contaminated ground water and mobile NAPLs. Using a series of extraction wells, the contaminated groundwater is pumped to the surface for treatment. Once the groundwater is treated, it needs to be re-injected or disposed of, depending on local regulations or site-specific stipulations. In most scenarios, particularly those with cohesive or layered strata, pump-and-treat systems are more efficient at plume containment rather than source control and site remediation to clean-up standards because NAPLs can become trapped in pore spaces by capillary forces and are not readily pumped out. For this site, a layered strata is present with varying degree of granular and cohesive soils being present. Therefore, preferential pathways for ground flow are present limiting the ability to address impact within the lower permeable layers. In addition, these systems often must be run for years and require significant O&M oversight and associated costs. They also require sufficient space to locate a treatment facility onsite.

At this Site, because residual impacts remain in soils, groundwater treatment using pump-and-treat technology would have to continue until some period of time after the passive leaching of contaminants from soil has ceased. As discussed later in section 5.2.1 on natural attenuation, this process is typically very slow. Thus, the timeframe to achieve ARARs is uncertain and would likely be significant. In addition, the Site presents multiple issues for siting a treatment facility, including the urban setting, the

size of the Site, its current commercial uses, and the location of residual impacts in soil near and under the Site structures. These concerns combined with the difficulty of projecting a treatment timeframe also make this a high cost treatment option for this Site. For these reasons, and because this remedial technology is not consistent with the Project Objective, it is eliminated as a viable option at the Site.

5.2 Remedial Alternatives Evaluated

A summary of the remedial alternatives to be evaluated, after screening, is presented in Table 1 and discussed further in the sub-sections below. Each alternative is analyzed relative to the seven CERCLA NCP criteria identified above and the Project Objective. It is assumed that once the most appropriate alternative has been identified based on the seven previously referenced criteria, both state and community acceptance can be achieved through normal processes of regulatory and community involvement. As required by CERCLA, the evaluation also includes the no further action alternative, in which no further active remediation would be performed and only monitored natural attenuation would be undertaken.

5.2.1 *REMEDIAL ALTERNATIVE 1: No Further Action/Natural Attenuation*

CERCLA requires an evaluation of the further action/natural attenuation alternative. Under this alternative, natural attenuation would rely on naturally occurring processes within the aquifer to reduce the concentrations of COCs through biological activity, dispersion, and dilution through aquifer movement and adsorption onto soil particles. As part of this alternative, continued environmental monitoring presumably would be conducted to evaluate contaminant migration and concentrations. No additional remedial actions would be undertaken.

5.2.1.1 Overall Protection of Human Health and the Environment

Minimal change from current site conditions would occur.

5.2.1.2 Compliance with ARARs

The rates of natural attenuation processes are typically very slow for some of the COCs associated with MGP residuals, including naphthalene and benzo(a)pyrene, and the expected timeframe to achieve ARARs would be significant, likely greater than 100 years, due to no active treatment being present. As such, the Project Objective would not be achieved with this treatment remedy alone.

5.2.1.3 Long-Term Effectiveness and Permanence

As discussed above, if any attenuation is achieved, the timeframe is significantly longer than other remedial alternatives.

5.2.1.4 Reduction of Toxicity, Mobility, or Volume through Treatment

Over the long term, site COCs may eventually reduce in concentrations. However, natural attenuation will not reduce COC mobility.

5.2.1.5 SHORT-TERM EFFECTIVENESS

There is no significant short-term effectiveness associated with natural attenuation.

5.2.1.6 IMPLEMENTABILITY

As previously discussed, the rates of natural attenuation processes are typically very slow for some of the COCs associated with MGP residuals and the expected timeframe to achieve ARARs would be significant.

5.2.1.7 COSTS

This remedial alternative has the lowest cost of any alternative because no direct treatment is performed. However, costs associated with performance of compliance monitoring (personnel, lab analysis, data collection & tabulation) would be incurred, and would continue over the long-term because, as discussed above, the rate of natural attenuation is typically very slow for COCs associated with MGP residuals.

5.2.2 *REMEDIAL ALTERNATIVE 2: Enhanced in Situ Bioremediation*

In situ aerobic bioremediation (ISB) relies on natural microbial processes to degrade contaminants and convert them to innocuous end-products such as carbon dioxide, water and other byproducts that are less hazardous than the parent compounds. Enhanced ISB involves the addition of various amendments (biostimulation) to the subsurface environment to stimulate the native bacterial populations to biodegrade the Site COCs and/or the addition of bacteria to the subsurface to enhance the existing microbial population (bioaugmentation).

5.2.2.1 OVERALL PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT

Contaminants are typically converted to innocuous products; however, ISB may not readily reduce concentrations of contaminants in the higher concentration source material and groundwater remaining at the Site.

5.2.2.2 COMPLIANCE WITH ARARS

ISB is not considered practical to treat higher concentration materials remaining at the Site, as the rate of treatment using ISB is typically very slow. As such, it would take a long time to achieve ARARs using this remedial alternative. Although it could be used in combination with another in situ treatment, this alternative alone would not meet the Project Objective.

5.2.2.3 LONG-TERM EFFECTIVENESS AND PERMANENCE

As discussed above, treatment time is typically longer than for the other remedial alternatives being considered.

5.2.2.4 REDUCTION OF TOXICITY, MOBILITY, OR VOLUME THROUGH TREATMENT

It is unlikely that a reduction in toxicity or mobility would be achieved in a short timeframe with this remedial alternative alone.

5.2.2.5 SHORT-TERM EFFECTIVENESS

No short-term effectiveness would likely be observed.

5.2.2.6 IMPLEMENTABILITY

ISB would be applied at the Site by directly injecting the amendments and/or bacteria cultures into the subsurface via direct-push technology or injection wells. While ISB will degrade COCs found in Site groundwater and soil, it is not recommended as a viable treatment option due to the long treatment timeframe and the likely need for numerous applications.

5.2.2.7 COSTS

The initial cost of this remedial alternative would be lower than Remedial Alternative 3 (ISCO). However, the need for numerous applications and the long treatment timeframe associated with ISB is likely to ultimately make this alternative more expensive than ISCO. Performance monitoring (personnel, lab analysis, data collection & tabulation) also would be required and additional expenses incurred after completion of each field event. This alternative may be cost-effective as a secondary polishing approach specific to the perimeter of the groundwater plume.

5.2.3 *REMEDIAL ALTERNATIVE 3: In Situ Chemical Oxidation (ISCO)*

ISCO involves the injection of a chemical oxidant into the subsurface to oxidize contaminants in groundwater or soil to innocuous byproducts. Injection occurs through a series of injection wells or via direct injection using direct push technology (DPT).

Depending on the oxidant selected and implementation strategy/oxidant delivery, ISCO is capable of reducing COC mass and significantly accelerating achievement of the target COC concentrations. Because oxidant selection is critical to the success of the remedy, common oxidants used for ISCO are evaluated below.

5.2.3.1 REMEDIAL ALTERNATIVE 3A: SODIUM/POTASSIUM PERMANGANATE

Sodium permanganate and potassium permanganate are highly stable in the subsurface and will persist and react with COCs for several months following an ISCO application. While permanganate is effective at addressing most of the Site COCs, it is not effective at oxidizing benzene, which exceeds State standards in groundwater onsite. Therefore, ISCO using permanganate is not considered to be a feasible remedial alternative.

5.2.3.2 Remedial Alternative 3B: Hydrogen Peroxide

As discussed in Section 2 above, a bench-scale test and pilot test were conducted in April and September 2014, respectively, to evaluate the effectiveness of ISCO using hydrogen peroxide to treat residual COCs in Site soils and groundwater, primarily naphthalene.

2014 Bench-Scale Test

The bench-scale tests were conducted using both 2 percent and 5 percent hydrogen peroxide solutions applied to soil samples collected from the Relief Holder. Soils were treated with up to two doses of each of the hydrogen peroxide solutions. Details of the bench-scale test are provided in the *Interim Report* (USA, 2014). Overall, results of the bench-scale testing suggested that hydrogen peroxide at low concentrations could be an effective oxidant for both VOC and SVOC compounds.

2014 Pilot Test

A pilot test was performed in September 2014 to evaluate the effectiveness of a field application of ISCO using hydrogen peroxide to reduce VOCs and SVOCs in Site soils and groundwater. Details of the pilot test application, including pilot test results, are presented in the *Voluntary Cleanup Plan Second Interim Remediation Report* (Second Interim Report) prepared by USA (USA, 2015). The pilot-scale application was conducted using two injection trenches installed at the location of the former Relief Holder.

Hydrogen peroxide was injected (via gravity feed) into the pre-constructed remedial trenches. When injection pressure was applied, oxidant surfacing was observed near the injection locations, at which point injections ceased. The extent of oxidant distribution beyond the trench and treatment effectiveness (including oxidant dosing) was not delineated.

Conclusions from Bench-Scale and Pilot Tests

Although technically feasible, utilization of hydrogen peroxide for ISCO at this Site presents the following limitations/concerns:

- Gas evolution can cause the displacement of pore space by gas, which may temporarily reduce the permeability and affect groundwater movement, as well as increasing subsurface pressures, potentially increasing the daylighting of injection solution. This is a concern particularly at this Site due to the urban setting and public use of the property.
- Heat can be generated during the reaction of hydrogen peroxide in the subsurface and could increase the rate of reaction, resulting in reduced distribution and contact with COCs. This can be mitigated by the addition of a stabilizer or by reducing the oxidant injection concentration and/or application rate. In some cases, these exothermic characteristics can be beneficial, if sufficiently controlled, to enhance desorption and dissolution of sorbed and non-aqueous phase

liquid (NAPL) mass. However, establishing the requisite controls would be difficult due to the Site setting (active public use of the property, existing infrastructure and capped/paved surface).

- The reactive transport of hydrogen peroxide in the subsurface is limited, primarily because of its fast reaction rate. Use of stabilizer to increase the half-life to achieve greater distribution and contact with the contaminants is highly recommended, but still may not be sufficient to reach all impacted areas at the Site.
- Hydrogen peroxide is a common product used in applications due its effectiveness and lower cost than other ISCO products; however, its fast reaction time and short half-life greatly affect its availability for contact. For sites in which contact is a concern, such as this one, multiple applications would likely be necessary to achieve the goal resulting in additional field time, greater material costs based on volume and increased post-monitoring requirements.

While hydrogen peroxide may have some effectiveness at treating Site COCs, because of the concerns discussed above, it is not the preferred ISCO technology.

5.2.3.3 REMEDIAL ALTERNATIVE 3C: SODIUM PERSULFATE

Sodium persulfate has been shown to be highly effective in oxidizing MGP residuals (notably both naphthalene and BTEX compounds) through both direct oxidation and free radical based mechanisms. The latter requires sodium persulfate activation to form the sulfate radical, a powerful and relatively non-selective oxidant. The persulfate anion can be activated by several methods including Iron activation (reaction with a reduced transition metal such as ferrous iron) and alkaline activation (auto-decomposition of the persulfate under alkaline conditions).

In February 2016, XDD performed a bench-scale evaluation of ISCO on Site soils and groundwater using sodium persulfate (refer to XDD's *Bench Scale Treatability Report*, dated February 24, 2016, included as **Appendix A**). The bench-scale test was performed to evaluate the effectiveness of sodium persulfate to treat Site COCs and identify any potential failure mechanisms by testing the site-specific soil geochemistry with ISCO process chemistry.

2016 Bench-Scale Test Results

The bench-scale test was conducted in two phases, each phase conducted over a period of 14 days. Phase 1 tests evaluated the following:

- Soil oxidant demand (SOD)
- Total oxidant demand (TOD)
- Stability of unactivated persulfate, IAP and AAP
- Base buffering capacity of site soils (for a potential AAP application)

Phase 2 testing consisted of injection simulation testing using the oxidant activation method and activator dosing based on Phase 1 results. Rationale for the oxidant activation selection is described in greater detail in **Appendix A**.

- Phase 1 Results: Sodium persulfate stability over the 14-day test period was within the typical range deemed acceptable for a field application with the SOD/TOD within ranges typically observed at similar sites. The soil base buffering capacity of 1.2 grams of NaOH per kilogram of soil is also within ranges typically observed at similar sites.
- Phase 2 Results: At the end of the 14-day injection simulation test period, residual persulfate was measured and available for all test conditions. Therefore, it is expected that with longer contact time, greater reduction in COC concentrations can be achieved.

Overall, results from Phases 1 and 2 of the bench-scale testing confirmed that alkaline activated persulfate is effective in treating Site COCs and, as discussed below, meet the NCP evaluation criteria.

5.2.3.3.1 Overall Protection of Human Health and the Environment

ISCO using sodium persulfate is a proven remedial technology capable of reducing Site COCs to concentrations below remedial goals, converting them to innocuous end-products. Until ARARs for site groundwater have been achieved, human health will be protected through the use of institutional controls that would restrict use of or contact with untreated contaminated groundwater. Groundwater would be monitored for the duration of the remediation period to determine when remedial actions are complete. Lastly, although possible short-term risks to operation workers exist (e.g., the handling and injection of oxidizing/reducing agents during chemical injections), these risks would be minimized by appropriate PPE and safe work practices.

5.2.3.3.2 Compliance with ARARs

Remediation of sorbed-phase contamination in Site soils using ISCO with sodium persulfate would ultimately result in reduced concentrations of COCs in Site groundwater. Persulfate is a particularly effective oxidant for this purpose, as iron-activated persulfate (IAP) and alkaline-activated persulfate (AAP) generate sulfate radicals, hydroxyl radicals and reductants providing the basis for treatment of a wide range of different types of contaminants. Also, because sodium persulfate is more stable than other oxidants and can persist in the subsurface for weeks to several months, additional treatment will occur beyond the active injection and contamination that may leach from soils to groundwater will be treated by residual persulfate. For areas where ARARs are not met once the initial oxidant application is spent, targeted secondary applications may be necessary to ensure sufficient contact and treatment.

5.2.3.3.3 Long-Term Effectiveness and Permanence

ISCO treatment using persulfate would permanently reduce residual contaminant mass in Site soils, which would ultimately result in reduced concentrations of COCs in Site groundwater. However, sufficient treatment of COCs assumes adequate oxidant distribution and contact time with the COCs. Therefore, because oxidant contact with Site COCs and distribution throughout the subsurface may vary based on existing Site conditions, additional targeted applications may be required after the initial application to reach remedial goals. Such targeted applications are common and typically applied on a much smaller scale than the initial application.

5.2.3.3.4 REDUCTION OF TOXICITY, MOBILITY, OR VOLUME THROUGH TREATMENT

ISCO using persulfate would treat site COCs in situ and produce innocuous treatment by-products. As discussed above, ISCO using persulfate would reduce COC mass and reduce contaminant concentrations.

5.2.3.3.5 SHORT-TERM EFFECTIVENESS

ISCO reactions are essentially instantaneous upon contact of oxidant and COCs. Persulfate may persist in the subsurface and continue to react with COCs for weeks to several months. This is advantageous in areas where COCs may be slowly leaching from less permeable soils into more permeable soils and groundwater.

Persulfate activation methods require modification to subsurface geochemistry to promote the desired chemical reactions. For example, when applying AAP, sodium hydroxide (NaOH) is added to the subsurface to create alkaline conditions (typically pH >10.5). Although these conditions are beneficial for the initial reaction, there will be resulting short-term impacts in terms of elevated alkalinity in groundwater. There is also a possibility of metals mobilization and migration in connection with non-utilized NaOH. However, the bench testing information will allow for optimal NaOH dosage during the injection process and post-injection monitoring of the pH will serve as a control.

5.2.3.3.6 IMPLEMENTABILITY

ISCO is a commonly used and proven technology for MGP residuals and is technically feasible at the Site. It requires little infrastructure other than standard vertical injection and monitoring wells, as well as temporary aboveground injection equipment. Moreover, persulfate has less affinity for natural organic matter than permanganate or peroxide; therefore, less oxidant is required.

The oxidant solution would be applied to the subsurface through a series of temporary injection wells or via direct injection using DPT (no injection wells would be installed) for greater distribution (both vertically and horizontally) and better control of the oxidant delivery. ISCO injection activities would be conducted on selected days to limit interruption and inconvenience to the public. The implementation can be designed so that a continuous injection process is not required, allowing for a start-and-stop style application.

5.2.3.3.7 COST

Capital costs for the ISCO remedy depend on several factors, including the extent of the source area and mass of oxidant and activator required for effective treatment at the Site. Remediation costs for this technology can typically range from $45 up to $120+ per cubic yard. For an implementation in an urban setting such as this Site combined with potential scheduling concerns, security, staging restrictions and other logistical factors, the upper scale of the presented range of $85 to $120+ per cubic yard is applicable. Assuming two ISCO applications at the Site (a primary application and a targeted application of reduced scale), the estimated cost to complete the ISCO remedy is approximately $360,000 to $560,000.

The primary potential mechanism that may result in the remedy being less effective at achieving remedial goals within the predicted timeframe, thus increasing costs, is inadequate distribution of oxidant. For example, low permeability soils and potentially high subsurface heterogeneity can increase the difficulty of distributing the oxidant. For this Site, boring logs from previous activities indicate a presence of sandy and gravelly material present in the natural setting which indicate that the distribution of oxidant materials is favorable. As the application injections are occurring, field modifications in flow rate, chemical concentrations, and locations of injection will be made to best fit the site-specific distribution conditions as a field optimization.

6.0 RECOMMENDATION

XDD has reviewed the available Site data and conducted a remedial alternatives evaluation. Based on the findings of that evaluation, XDD recommends ISCO using sodium persulfate as the best remedial option for this Site.

Evaluating the oxidant effectiveness observed during bench-scale tests, XDD recommends application of ISCO using a phased approach. The phased approach would involve performing an initial field application capable of achieving significant mass reduction while evaluating oxidant distribution using key wells in the existing Site groundwater monitoring system. The results of the initial application can then be used to refine the treatment area and design parameters to optimize additional targeted applications in any areas needing further treatment. The second, targeted oxidant application would likely occur 6-12 months after the initial application, once that oxidant is fully spent.

7.0 REFERENCES

1. Title 40 – Protection of Environment - Code of Federal Regulations - Chapter 1 Subchapter J Part 300 Subpart E 300.430

2. New York State Department of Environmental Conservation – Contamination at MGP Sites (http://www.dec.ny.gov/chemical/24922.html)

TABLES

TABLE 1
REMEDIAL OPTIONS FEASIBILITY MATRIX
13th Street Plaza MGP Site
Boulder, Colorado

General Response Action	Technology	Process Options	Description	Protection of Human Health and Environment	Implementability	Effectiveness	Compliance with ARARs and Project Objective	Cost
No Further Action	Natural Attenuation	Naturally Occurring Biodegradation, Dispersion, and Absorption	Use of natural attenuation processes to reduce contaminant concentrations to acceptable levels. Long-term monitoring program to monitor groundwater concentration levels.	No - Significant contaminant mass will remain at the site and minimal change from current site conditions would occur.	Easiest remedy to implement.	Natural attenuation would reduce the concentrations of groundwater contamination, but is not effective for source mass reduction. Limited long-term treatment potential, no significant short term treatment potential.	The period of time for natural attenuation processes to reduce contaminant concentrations to remedial goals could be as long as 100 years or more. Would not meet Project Objective.	Lowest cost remedial option as costs are limited to monitoring and reporting requirements. The approach does not typically lead to site closure; therefore annual costs are expected to be long term. Typical cost considerations are $25K-$50K annually. Costs not associated directly with the monitoring such as oversight, additional analytical requests, closure, etc would be projected at an additional 35-50%.
In Situ Treatment	Biological Treatment	Enhanced In Situ Bioremediation	Enhanced aerobic bioremediation of VOCs by addition of amendments, air, or oxygen (or a combination of) to groundwater to stimulate biodegradation of benzene, toluene, xylenes, naphthalene and TPH.	Unknown - ISB may not reduce concentrations of contaminants in heavily contaminated areas to required levels.	• Proven technology and technically feasible. However, multiple applications are required. • Typically long treatment timeframe.	• Contaminants typically converted to innocuous end products. • Treatment time is typically longer than other remedial technologies. • May not reduce concentration of contaminants to required levels. • Treatment effectiveness may be optimized with the addition of nutrients/amendments. This could require testing periods up to 90 days or more. • Generally not practical to address free-phase product or heavily contaminated areas. More effective for remediating low-level residual contamination.	ARARs would likely not be achieved in a short timeframe with this treatment remedy alone. Would not meet Project Objective.	Lower cost than other technologies, however costs increase with multiple applications and the approach only serves to control the periphery of the concern. It does not treat the source; therefore, additonal approach costs will apply. Treatment cost range for an area for this size are $75K to $200K; however, overall remedial costs would be on the upper end of the treatment alternatives, likely at $600K plus, with a longer period of treatment required than ISCO approaches. Costs not associated directly with the application such as oversight, post-remedial monitoring, analytical, closure, etc would be projected at an additional 25-30%.
	Chemical Treatment	ISCO using Permanganate	In-situ chemical oxidation of VOCs by injection of oxidant solution to groundwater through a series of injection wells or via direct injection using direct push technology (DPT).	Only for some COCs - Sodium permanganage and potassium permanganate are effective at reducing most Site COCs; however neither will oxidize benzene. As a result, this remedial alternative would not address Site benzene contamination.	Not technically feasible due to the inability to degrade benzene.	Permanganate most effective for treating chlorinated solvents. Not an effective treatment for benzene contamination.	ISCO using permanganate will not reduce benzene to below ARARs.	This approach does not address concerns with benzene; therefore costs projections are not applicable
		ISCO using Hydrogen Peroxide	In-situ chemical oxidation of VOCs by injection of oxidant solution to groundwater through a series of injection wells.	Yes - Protection of human health and the environment would be achieved by attainment of remedial goals through active remediation; however, this option presents possible safety concerns given Site conditions.	• Proven effective technology for treatment of site COCs. • Successfully pilot tested at the site. • Technically feasible.	• Successfully pilot tested at the site; however, effectiveness may be increased with the use of a stabilizer (such as citric acid). • Gas evolution can increase the severity of daylighting injection solution, as well as increased subsurface pressures. This is a particular concern at this site due to the urban setting. • Heat can be generated during the reaction of hydrogen peroxide in the subsurface and could increase the rate of reaction resulting in reduced distribution and contact with COCs This can be mitigated by the addition of chemical stabilizers or by reducing the concentration of the peroxide and/or application rate. • The half-life of hydrogen peroxide in the subsurface is short, generally hours to days. • The reactive transport of hydrogen peroxide in the subsurface is limited, primarily because of its fast reaction rate. Use of stabilizer (citric acid) to increase the half-life to achieve greater distribution and contact with the contaminants is recommended. • If the subsurface contains an overabundance of transition metals, hydrogen peroxide is usually supplemented with a stabilization agent intended to aid the subsurface persistence and distribution of the hydrogen peroxide.	ISCO using hydrogen peroxide could meet ARARs but presents several limitations and concerns. In addition, it would likely take longer than ISCO using sodium persulfate.	Cost dependant on oxidant required to address extent of source/treatment area. Lower application costs than other oxidants commonly used for ISCO (permanganate & persulfate); however, due to short half-life, multiple applications are probable; thereby leveling overall costs. Cost range for this technology is broader due to unknown number of applications that may be required. This range is $300K to $650 with a lower probability of success than sodium persulfate. Costs not associated directly with the application such as oversight, post-remedial monitoring, analytical, closure, etc would be projected at an additional 25%.

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TABLE 1
REMEDIAL OPTIONS FEASIBILITY MATRIX
13th Street Plaza MGP Site
Boulder, Colorado

General Response Action	Technology	Process Options	Description	Protection of Human Health and Environment	Implementability	Effectiveness	Compliance with ARARs and Project Objective	Cost
In Situ Treatment (continued)	Chemical Treatment (continued)	ISCO using Sodium Persulfate	In-situ chemical oxidation of VOCs by injection of oxidant solution to groundwater through a series of injection wells or via direct injection using DPT.	Yes - Protection of human health and the environment would be achieved by attainment of remedial goals through active remediation.	• Proven effective technology for treatment of site COCs. • Technically feasible.	• Reacts readily with many contaminants and produces innocuous by-products. • Dissociation in water creates highly reactive oxidant proven to oxidize BTEX compounds and PAHs (notably naphthalene). • Iron-activated and alkaline-activated persulfate generate hydroxyl radical, sulfate radical, and reductants providing the basis for treatment of a wide range of different types of contaminants. • Less affinity for natural organic matter than permanganate or peroxide; therefore, less oxidant is required. • More stable than other oxidants (ozone and hydrogen peroxide) and may persist in the subsurface for weeks to months. • Bench-scale treatability test recommended for optimal oxidant/activator dosing.	ISCO using sodium persulfate would meet ARARs and Project Objective. Additional targeted applications may be necessary beyond initial application.	Cost dependent on mass of oxidant required to address extent of source/treatment areas. Bench testing results will be used to refine design and minimize costs. Remediation costs typically range from $45 up to $120+ per cubic yard. For the Boulder MGP site, the anticipated issues associated with the urban setting, schedule conflicts, community requirement, etc., place this cost in the upper scale of $85 to $120+ per cubic yard cost. The projected application cost range is $360K to $560K. Costs not associated directly with the application such as oversight, post-remedial monitoring, analytical, closure, etc would be projected at an additional 25%.

Notes:

VOCs - Volatile Organic Compounds
TPH - Total Petroleum Hydrocarbons
ISCO - In Situ Chemical Oxidation
DPT - Direct Push Technology
COCs - Contaminant of Concern
PAH - Polyaromatic Hydrocarbons
BTEX - Benzene, toluene, ethylbenzene, xylene
PRB - Permeable Reactive Barrier

XDD ENVIRONMENTAL

APPENDIX A

February 24, 2016 *via E-Mail (kales@twhlaw.com)*

Michelle Kales, Esq.
Temkin & Hardt, LLP
1900 Wazee Street, Suite 303
Denver, Colorado 80202

RE: Bench Scale Treatability Report
13th Street Plaza Site Former MGP Site
Boulder, Colorado

Dear Ms. Kales,

XDD Environmental (XDD) appreciates the opportunity to provide Temkin & Hardt, LLP with this report summarizing the results of the Bench-Scale In Situ Chemical Oxidation (ISCO) Treatability Tests for the above referenced site. The bench testing was performed in accordance with "Proposal for Bench Testing Services", dated October 1, 2015.

If you have any questions regarding the information presented in this report, please do not hesitate to call me at 603.778.1100.

Sincerely,
XDD, LLC

Laurel Crawford
Senior Scientist

cc: Michael Marley/XDD
Derek Ingram/XDD
Pat Cusack/XDD

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BENCH SCALE TREATABILITY REPORT

13th Street Plaza MGP Site
Boulder, Colorado

Prepared For:

Temkin & Hardt, LLP
1900 Wazee Street, Suite 303
Denver, Colorado 80202

Prepared By:

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February 24, 2016

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1.0 INTRODUCTION

XDD Environmental (XDD) was retained by Temkin & Hardt, LLP to perform a bench scale evaluation of in situ chemical oxidation (ISCO) on soil and groundwater from the 13th Street Plaza Site located in Boulder, Colorado (Site). The Site was formerly occupied by a Federal Gas Company manufactured gas plant (MGP) and is currently occupied by the Boulder Dushanbe Tea House, a parking lot, and a public plaza. The primary contaminants of concern (COCs) at the Site include sorbed- and dissolved-phase volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs), primarily benzene, toluene, ethylbenzene, xylene (BTEX), and naphthalene. Site COCs are associated with impacted soils that remain at the Site following previous remedial excavation due to inaccessibility and structural integrity concerns associated with excavating near Site structures. As of June 2014, benzene concentrations of up to 140 micrograms per liter (µg/L) and naphthalene concentrations of up to 2,300 µg/L have been detected in Site groundwater exceeding the Colorado Department of Public Health and Environment (CDPHE) Basic Standards for Groundwater.

Following a bench scale treatability study, a pilot scale ISCO application using hydrogen peroxide was performed at the Site. Groundwater and soil concentrations remain elevated and a full-scale ISCO application is being considered as a remedial option at the Site. XDD recommended conducting a bench scale treatability test designed to evaluate the effectiveness of sodium persulfate to treat Site COCs and to determine the feasibility of ISCO using sodium persulfate for the remedial approach. If sodium persulfate is selected as the remedial approach, the bench test results will provide critical design parameters that will lead to a more cost effective field application and reduce the potential failure mechanisms.

1.1 BENCH TEST APPROACH

XDD recommended performing the ISCO treatability testing using sodium persulfate ($Na_2S_2O_8$) technology. Sodium persulfate is a powerful oxidant which is similar to hydrogen peroxide in effectiveness. Although sodium persulfate is slightly more expensive than peroxide, it is typically much more stable in situ, which allows for the oxidant to be more effectively distributed in the subsurface.

Sodium persulfate has been shown to be highly effective in oxidizing petroleum hydrocarbons (notably BTEX compounds and naphthalene) through both direct oxidation and free radical based mechanisms. The latter requires sodium persulfate activation to form the sulfate radical, a powerful and relatively non-selective oxidant. The persulfate anion ($S_2O_8^{2-}$) can be activated by several methods including heat activation, reaction with a reduced transition metal such as

ferrous iron (iron activation) and auto-decomposition of the persulfate under alkaline conditions (alkaline activation). Iron-activated persulfate (IAP) and alkaline activated persulfate (AAP) generate sulfate radicals, hydroxyl radicals and reductants providing the basis for treatment of a wide range of different types of contaminants.

Iron Activated Persulfate: The use of iron to activate persulfate is effective for the treatment of BTEX, chlorinated benzenes, MTBE and polyaromatic hydrocarbons (PAHs). The addition of ferrous iron increases the oxidative strength of sodium persulfate, which is attributed to the production of sulfate free radicals ($SO_4^{-\bullet}$). Because ferrous ions require highly reducing conditions such as an acidic pH to remain in solution, a chelating agent, such as citrate, is recommended to help maintain iron solubility and mobility. Chelated iron provides efficient activation while maintaining persulfate's longevity in the subsurface.

Alkaline Activated Persulfate: Alkaline pH conditions (typically > 10.5) are required to promote the desired chemical reactions in-situ. Alkaline conditions are established by injecting a sodium hydroxide (NaOH) solution into the subsurface along with the sodium persulfate solution. The auto-decomposition of persulfate under alkaline conditions is believed to cause the persulfate molecule to break down, resulting in the formation of two sulfate radicals. Additional propagation reactions are possible after this initial step, including the formation of the hydroxyl radical, and possibly superoxides (similar to hydrogen peroxide).

XDD evaluated unactivated persulfate, IAP and AAP, as each mechanism generates a unique chemistry that has been found to be advantageous under different site conditions.

XDD recommended that a phased bench scale test program be implemented to identify potential failure mechanisms by testing the Site-specific soil geochemistry and ISCO process chemistry. Phase 1 evaluated the soil base buffering capacity and the stability and soil oxidant demand (SOD) of persulfate. Based on the Phase 1 results, the preferred oxidant/reagents was selected for testing in Phase 2 to determine full-scale implementation design parameters.

2.0 EXPERIMENTAL PROCEDURES

The following contains a description of the general procedures followed for the tests conducted in this bench scale evaluation.

The soil used in the ISCO bench tests was collected from soil boring location PBT-B1. The groundwater was collected from monitoring well MW-10. All samples collected for treatability

testing were stored at approximately 38 degrees Fahrenheit (°F) prior to use in the test reactors.

Unless otherwise specified, experiments were conducted at 70 °F in borosilicate-glass batch reactors. Approximately two pore volumes of reagent were applied to the soil unless otherwise noted. Aqueous phase residual oxidant concentrations for each ISCO technology were determined using iodometric titration. Geochemical parameters, such as pH, were determined using an ion selective probe.

2.1 EXPERIMENTAL PROCEDURES: ISCO PHASE 1

XDD evaluated the ISCO technologies in two phases to identify potential failure mechanisms via testing the site-specific soil geochemistry and ISCO process chemistry. The first phase, Phase 1, evaluated the SOD and stability of unactivated persulfate, IAP, and AAP, and the base buffering capacity of AAP. Based on the Phase 1 results, the preferred oxidant and was selected for testing in Phase 2 (i.e., injection simulation test) to aid in the determination of field implementation design parameters. The Phase 1 test procedures are discussed below.

For the persulfate tests, XDD evaluated unactivated, iron-chelate, and alkaline activation methods as each method generates a unique chemistry that has been found to be advantageous under different site conditions. The general procedures used for each test were as follows:

- ***Base Buffering Capacity***: Various concentrations of sodium hydroxide were added to separate vials containing 20 grams (g) of soil. The concentrations varied from 0.1 grams per liter (g/L) to 40 g/L sodium hydroxide. pH measurements were collected after 1, 3, 4, 7, and 14 days of contact time between the sodium hydroxide solutions and the soil. The quantity of base required to raise and maintain the pH above 10.5 was assessed (for alkaline activation of sodium persulfate) and calculated as g of sodium hydroxide per kilogram (Kg) of soil (mass loading).
- ***Persulfate Stability***: The stability of unactivated, alkaline activated, and iron activated sodium persulfate was evaluated by monitoring residual persulfate in duplicate reactors of three different concentrations of sodium persulfate (50 g/L, 100 g/L and 200 g/L) dissolved into site groundwater in the presence of 30 g of soil. The decomposition of persulfate in the reactors was evaluated at time steps of 1, 7, and 14 days.
- ***Total and Soil Oxidant Demands***: SOD and total oxidant demand (TOD) were calculated using the data generated in the persulfate stability test by calculating the mass as grams of oxidant consumed per kilogram of soil in each reactor. TOD was considered to be the

oxidant consumed in comparison to the baseline while SOD was the oxidant consumed in comparison to the control reactors containing activation chemicals.

2.2 EXPERIMENTAL PROCEDURES: ISCO PHASE 2

Following the completion of Phase 1 tests, the preferred oxidant was selected for the injection simulation tests conducted in Phase 2. Based on Phase 1 test results, AAP was selected for the Phase 2 testing. Additional detail regarding oxidant selection is discussed in Section 3.

To verify COC concentrations in Site soil and groundwater used for the injection simulation test, baseline soil and groundwater samples were submitted for laboratory analysis of VOCs prior to developing the injection simulation test setup. Baseline sample results are presented in Appendix A.

AAP was evaluated by applying approximately two pore volumes of reagent (sodium persulfate dissolved into site groundwater) to Site soils at two different concentrations of sodium persulfate (100 g/L and 200 g/L). The injection simulation tests were set up in 40-mL glass vials with Site soil and groundwater with minimal headspace. Duplicate sacrificial reactors were submitted to the laboratory for VOC analyses and one reactor was dedicated for measuring pH and residual aqueous phase oxidant concentrations. The oxidant was allowed to contact the Site soils and groundwater for 14 days. Control reactors prepared for each test condition did not contain oxidant.

Since it was not feasible to collect samples from the highly contaminated areas of the Site, XDD added sufficient mass of selected site COCs to batch reactors (i.e. “spike”) to simulate soil and groundwater concentrations currently observed or anticipated to be encountered at the site. Based on the baseline soil data, the COCs were spiked to the Site soil at two concentrations to simulate the variability in the contaminant distribution observed at the Site. One spike concentration was intended to simulate the average soil and groundwater concentrations observed at the Site (“Low Spike”), and the other spike concentration was intended to simulate the maximum soil and groundwater concentrations observed at the Site (“High Spike).

XDD spiked the site soils to the target concentrations presented below using a modified vapor deposition method (condensing vaporized COCs on soils to ensure uniform distribution). The targeted concentrations of the COCs spiked on soil for the two scenarios are summarized below.

COC	Low Spike Concentration (mg/Kg)	High Spike Concentration (mg/Kg)
Benzene	16	95
Toluene	31	240
Ethylbenzene	35	230
o-Xylene	17	110
p-Xylene	35	210
Naphthalene	880	6,300

The ratio of oxidant required to treat the COCs under laboratory conditions was evaluated in the Phase 2 testing. After a reaction time of 14 days, sacrificial reactors were submitted for the laboratory analysis of VOCs using United States Environmental Protection Agency (USEPA) Method 8260. Absolute Resource Associates (ARA) located in Portsmouth, NH performed all analyses.

The proposal indicated that for each treatment condition single groundwater and duplicate soil samples would be submitted for analysis. However, the baseline analyses indicated higher levels of contaminants on soil relative to groundwater. Therefore, the injection simulation test reactors were submitted for duplicate soil analyses and a single groundwater analysis for each test condition. The total number of analyses (21) remained consistent with the proposal. The Phase 2 test set up is summarized in the table below.

Test Condition	Soil Analyses (VOC)	Groundwater Analyses (VOC)
Baseline	1	2
Control – No Oxidant – Low Spike	2	1
Control – No Oxidant – High Spike	2	1
Low Oxidant – Low Spike	2	1
Low Oxidant – High Spike	2	1
High Oxidant – Low Spike	2	1
High Oxidant – High Spike	2	1
Total	**13**	**8**

3.0 RESULTS AND DISCUSSION

The results of Phase 1 and Phase 2 bench scale tests are presented and discussed in this section.

3.1 PHASE 1 TESTS: SODIUM PERSULFATE

The ISCO Phase 1 tests are intended to evaluate the effects of the Site geochemistry on the ISCO process technology. XDD evaluated the ISCO technology activated sodium persulfate in the Phase 1 tests.

3.1.1 BASE BUFFERING CAPACITY

Results from the base buffering capacity test are presented in Figure 1. Test results indicated that after 14 days of contact between the sodium hydroxide solution and the soils, 1.2 g of sodium hydroxide per Kg of soil was required to elevate the pH to greater than pH 10.5. A full-scale design needs to consider upscaling these results to be applied in the field. The reaction will likely be a function of the surface area contacted by the reagents. The surface area contacted in the bench scale is likely higher per Kg than will be required in the field.

3.1.2 PERSULFATE STABILITY

The persulfate stability test evaluated the persistence of unactivated persulfate, IAP, and AAP in the presence of Site soil and groundwater. The test evaluated persulfate in reactors with initial target concentrations of 50 g/L, 100 g/L, and 200 g/L sodium persulfate dissolved in Site groundwater in contact with Site soil for each activation method. The decomposition of persulfate in the reactors was evaluated at time points of 1, 7, and 14 days (Figure 2). Persulfate stability test results indicated that all persulfate activation methods tested were sufficiently stable over a 14-day period in the presence of Site soils, with persulfate remaining in all test reactors after 14 days of contact. Given the residual persulfate concentrations at the end of 14 days, it is reasonable to expect treatment to occur for greater than 14 days. In general, residual persulfate concentrations were highest in the unactivated persulfate systems and lowest in the AAP systems after 14 days of contact, which is typical. While some phases of contamination may require additional contact time, for the purposes of this evaluation, 14 days is considered to be sufficient to adequately distribute the oxidant and establish contact with readily available contamination.

3.1.3 TOTAL AND SOIL OXIDANT DEMAND

Results from the TOD and SOD tests after 14 days of contact with 50 g/L, 100 g/L, and 200 g/L persulfate for the unactivated, IAP, and AAP technologies are presented in Table 1. In general, AAP yielded a higher TOD and SOD than the unactivated and IAP systems after 14 days of contact. The data show that the TOD ranged from 11.2 to 12.6 g/Kg for the unactivated persulfate systems, from 13.5 to 22.9 g/Kg for the IAP systems and from 17.3 to 47.6 g/Kg for the AAP systems. Although AAP had a higher non-target demand (TOD/SOD) than UAP and IAP, the oxidant demand was within ranges typically observed with AAP. SOD and TOD also increased with increasing persulfate concentrations, which is typical and is likely due to concentration-based kinetics.

TOD and SOD are intended to be an estimation of the mass of oxidant that will be consumed during the application of activated persulfate in site groundwater and soil. TOD is intended to include decomposition of oxidant based on the activator as well as SOD. TOD tends to be used most often as a design engineering parameter. SOD is intended to estimate the role of non-target reactions with natural organic material and mineralogy. As unactivated persulfate does not have oxidant demand due to an activator, TOD and SOD are theoretically the same, with any difference due to the method of calculation.

3.2 PHASE 2 TESTS: INJECTION SIMULATION

3.2.1 OXIDANT SELECTION

Phase 1 testing indicated that both IAP and AAP that were identified in the Phase 1 tests, indicating that either could be considered for the Phase 2 injection simulation tests. AAP was ultimately selected for the following reasons:

- AAP is capable of more effectively treating a wider range of contaminants than iron activate persulfate.
- AAP is known to successfully degrade the contaminants found at this Site, and has been used successfully at sites with similar COCs/site conditions.
- Iron activation has the potential to result in the formation of chlorinated by-products during treatment.

3.2.2 ISCO TREATMENT EFFECTIVENESS

The injection simulation test results are discussed below. Results are shown on Table 2 through Table 4, with analytical laboratory reports attached in Appendix A.

Results of the injection simulation test are presented in Tables 2 and 3 for groundwater and soil, respectively. The percent reductions in concentrations compared to the control reactors are also shown. For the purposes of this evaluation, the sample detection limit was used for compounds reported as non-detect.

3.2.2.1 Groundwater

For all test conditions, greater reductions in groundwater concentrations of BTEX compounds were observed as compared to naphthalene. As a result, the overall percent reductions were biased low by the naphthalene data. The average percent reductions of BTEX and naphthalene in groundwater are summarized below:

- 100 g/L AAP – Low Spike: COC mass in groundwater was reduced by 70 percent in comparison to the Low Spike Controls.
- 100 g/L AAP – High Spike: COC mass was reduced by 80 percent in comparison to the High Spike Controls
- 200 g/L AAP – Low Spike: COC mass in groundwater was reduced by 81 percent in comparison to the Low Spike Controls.
- 200 g/L AAP – High Spike: COC mass was reduced by 75 percent in comparison to the High Spike Controls.

3.2.2.2 Soil

Similar to groundwater, higher percent reductions of the BTEX compounds were observed as compared to naphthalene on the soil. As a result, the overall percent reductions were biased low by the naphthalene data. The average percent reductions of BTEX and naphthalene in soils are summarized below:

- 100 g/L AAP – Low and High Spike: Overall, no measureable reductions in aggregate COC concentrations were observed due to the increase in naphthalene concentrations. However, when evaluating BTEX compounds only, BTEX mass in soil decreased by 33 percent in comparison to the controls.
- 200 g/L AAP – Low Spike: Aggregate COC mass in soil was reduced by 11 percent in comparison to the Low Spike Controls. Excluding naphthalene, BTEX mass in soil was reduced by 61 percent.
- 200 g/L AAP – High Spike: Aggregate COC mass in soil was reduced by 32 percent in comparison to the High Spike Controls. Excluding naphthalene, BTEX mass in soil was

reduced by 42 percent.

The degradation ratio is a ratio of the mass of oxidant consumed during the reaction divided by the mass of contamination degraded as compared to the control reactors. Results are presented in Table 4. For reactors treated with 200 g/L AAP, the degradation ratio for the Low Spike test condition was calculated to be 149 g oxidant per g contaminant and the degradation ratio for the High Spike test condition was calculated to be 9.6 g oxidant per g contaminant. The degradation ratios for the 100 g/L test conditions could not be calculated because the soil data indicated no reduction in concentrations compared to the control, due to the increase in naphthalene concentrations. The degradation ratios are not cumulative but reflect the amount of oxidant used to meet the measured reductions for each of the contaminant analytical methods used. The ranges determined from the bench testing are used in conjunction with TOD data and field experience in the selection of the dosing required to meet the regulatory cleanup goals in the full-scale field application design.

For all test conditions, between 22 and 35 percent of the persulfate remained in the test reactors at the end of the 14-day contact period, indicating that additional treatment would likely continue for greater than 14 days. The pH in all test conditions remained above 10.5 throughout the test indicating that sufficient sodium hydroxide was applied to maintain at optimal minimum pH for AAP. The test results and residual oxidant suggest that further treatment of the contaminants would occur with additional treatment / contact time.

Acetone, 2-butanone, bromomethane, carbon disulfide, chloroform, and methyl t-butyl ether were also detected in groundwater for some of the test conditions. These compounds are often measured in groundwater initially following the application of ISCO and typically are not present in samples collected in field performance monitoring several months after field applications. As some of these compounds were also present in one of the controls, it is also possible it was an impurity or analytical contaminant.

4.0 CONCLUSIONS

The bench scale data support the following conclusions:

4.1 PHASE 1 TESTS

- Base buffering capacity test results indicate that 1.2 grams of NaOH per Kg of soil is required to raise and maintain the pH above pH 10.5. It is recommended that adequate NaOH be applied to account for both the base buffering capacity of soils and potential

acid evolution during persulfate decomposition. XDD typically recommends 2.25 moles of NaOH for every mole of persulfate in solution.

- Persulfate stability and SOD/TOD were within typical ranges for a potential field application. Based on the Phase 1 test results and prior experience at similar sites, AAP was selected for the Phase 2 testing.

4.2 PHASE 2 ISCO INJECTION SIMULATION TESTS

- The groundwater data showed greater reductions in concentrations compared to the controls than the soil data. This scenario is commonly observed, as the oxidant can more easily degrade contaminants in the aqueous phase due to the lack of contact limitations normally encountered in the solid phase.
- Greater reductions in BTEX concentrations than naphthalene concentrations were achieved in the soil and groundwater compared to the controls.
- At the end of the 14-day test period, residual persulfate was measured for all test conditions. Therefore, it is expected that with longer contact time, greater reduction in COC concentrations would be achieved.
- Degradation ratios were higher for the Low Spike test conditions as compared to the High Spike test conditions. The degradation ratio is a tool used to aide in the design of the field application.

5.0 RECOMMENDATIONS

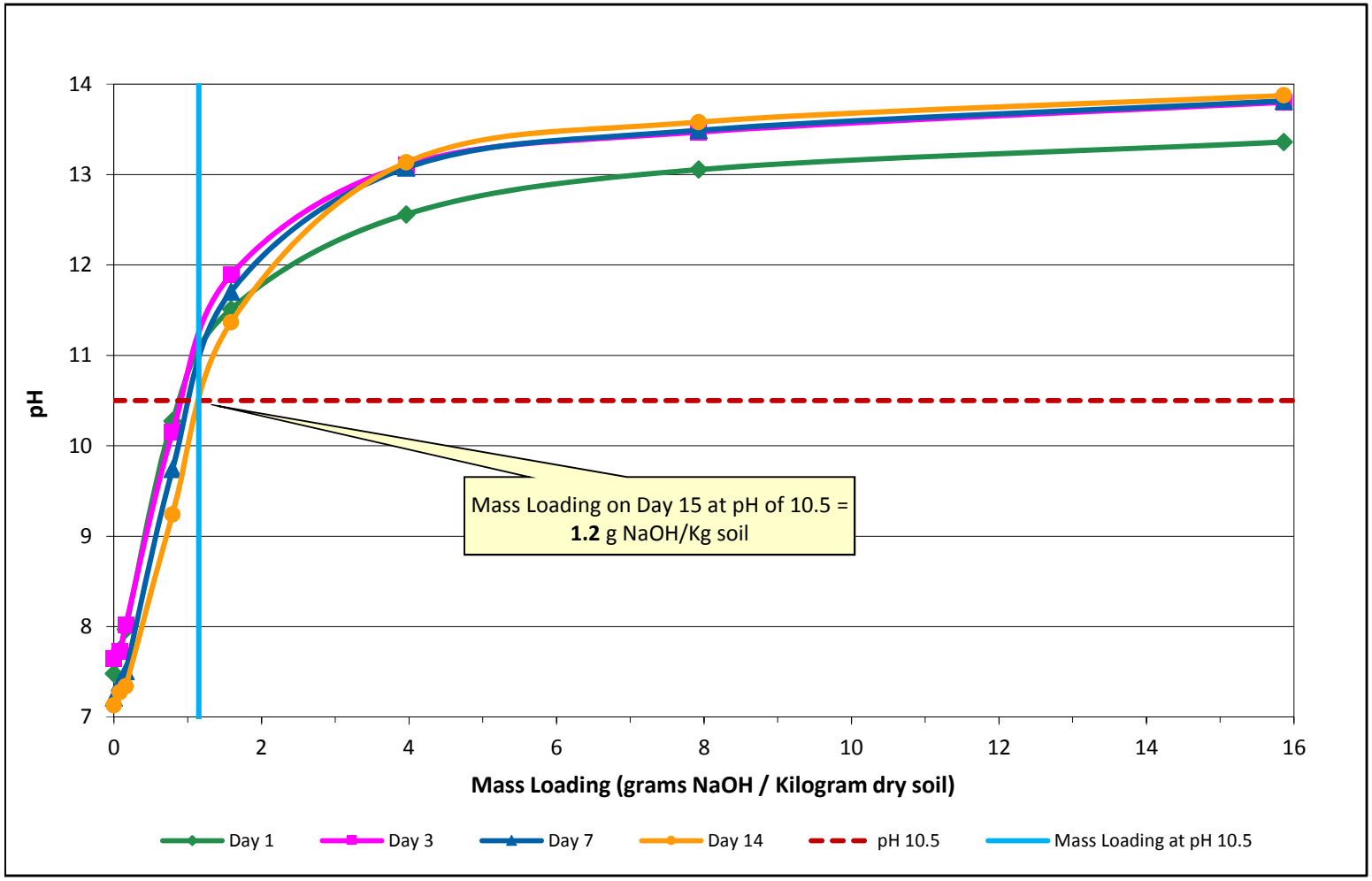
Based on the Phase 1 and Phase 2 bench scale test results, AAP is the recommended oxidant technology for a field scale application for this Site for the following reasons:

- Sodium persulfate stability over the test period was within the typical range deemed acceptable to applying in the field.
- SOD/TOD were within ranges typically observed at similar sites.
- The technology was effective in treating the site COCs. However, it is anticipated that multiple applications will likely be required to achieve remedial goals. Additional treatment would be expected in the field with a longer contact period than used in the bench testing.

Figures

Figure 1
Base Buffering Capacity Test

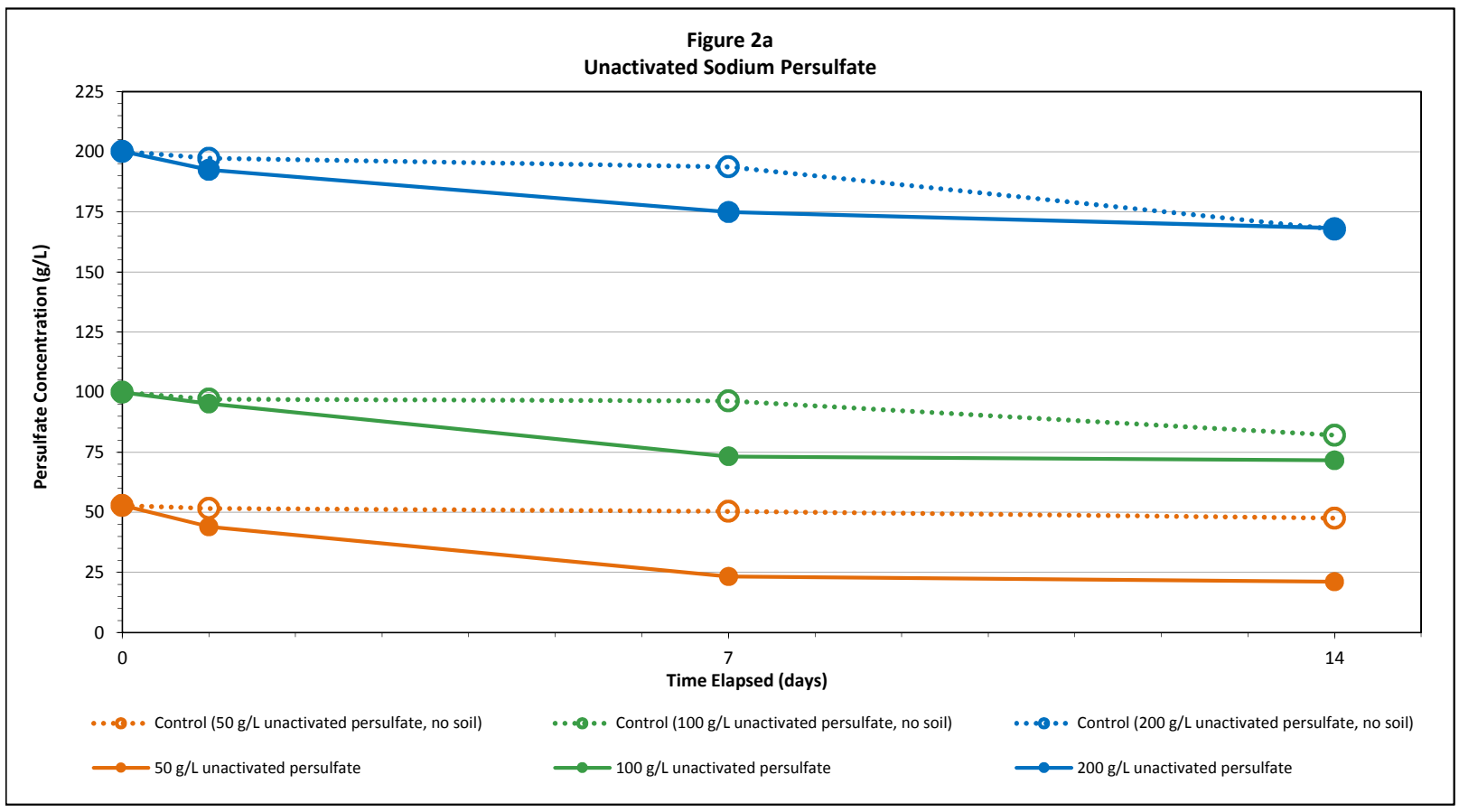
13th Street Plaza Former MGP Site
Boulder, Colorado

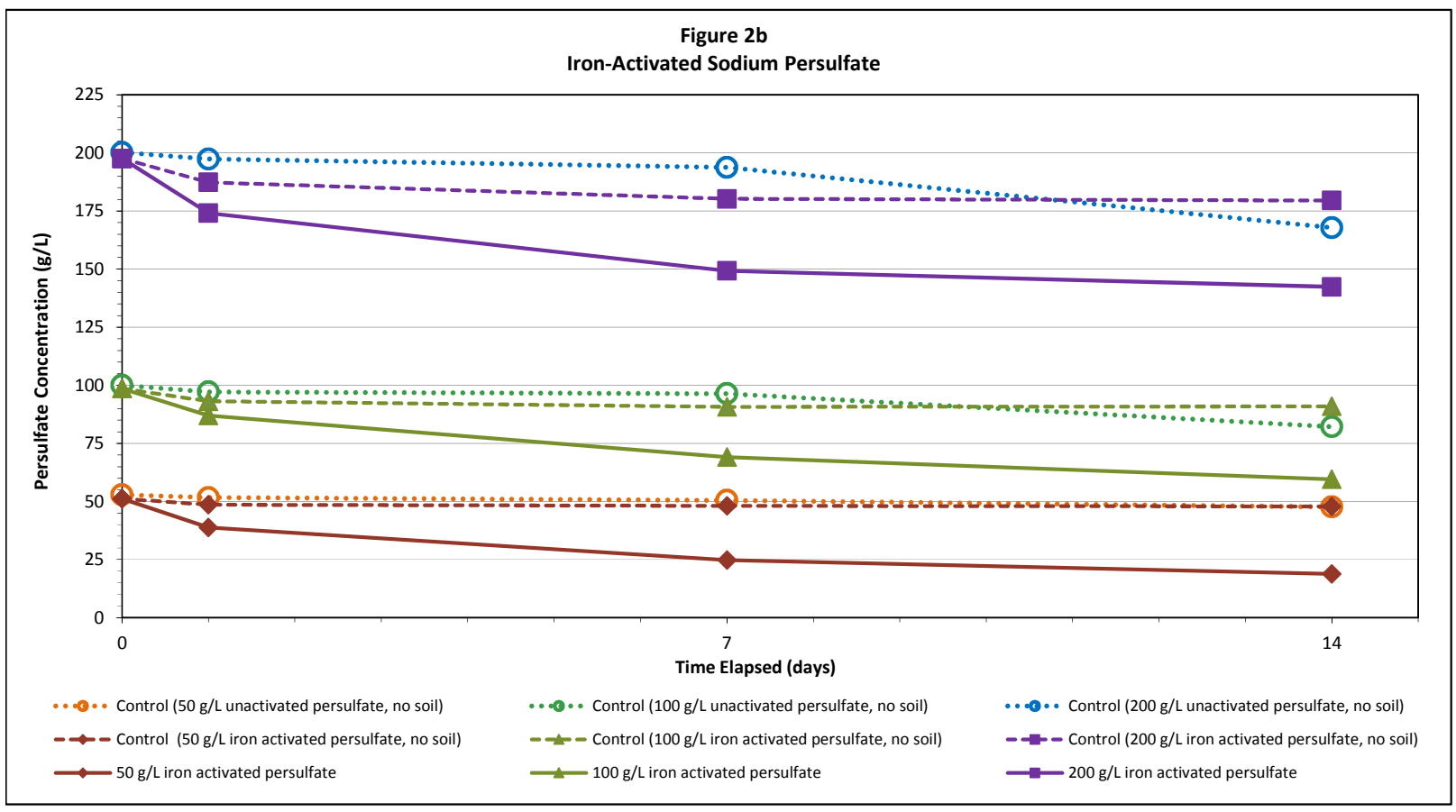


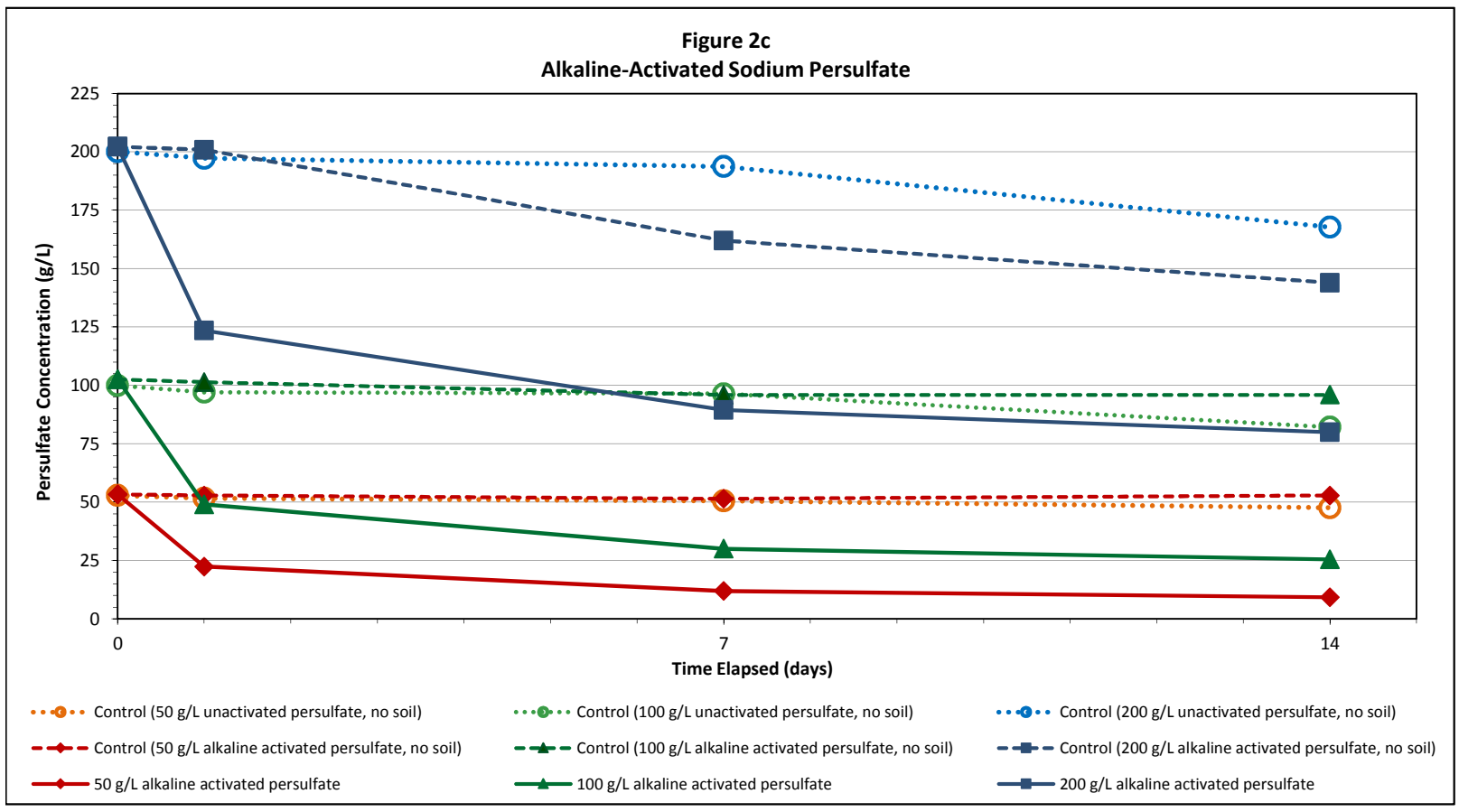
Notes:
NaOH = Sodium Hydroxide
g = grams
Kg = kilograms

Figure 2
Persulfate Stability Test

13th Street Plaza MGP Site
Boulder, Colorado







g/L = gram per liter

Tables

Table 1
Soil Oxidant Demand and Total Oxidant Demand

13th Street Plaza Former MGP Site
Boulder, Colorado

Treatment	Starting Oxidant Test Concentration	Soil Oxidant Demand *(grams oxidant / kilogram dry soil)*	Total Oxidant Demand *(grams oxidant / kilogram dry soil)*
Unactivated Sodium Persulfate	50 g/L	10.5	12.6
	100 g/L	4.2	11.2
	200 g/L	0.0	12.6
Iron Activated Sodium Persulfate	50 g/L	11.5	13.5
	100 g/L	12.5	16.0
	200 g/L	14.7	22.9
Alkaline Activated Sodium Persulfate	50 g/L	17.3	17.3
	100 g/L	27.9	29.5
	200 g/L	25.4	47.6

Notes:
g/L = grams per liter
Soil Oxidant Demand and Total Oxidant Demand based on **Day 14** readings.
Total Oxidant Demand = Soil Oxidant Demand + Activator Demand
Alkaline activated persulfate was activated with sufficient sodium hydroxide (NaOH) to account for persulfate decomposition and soil base buffering capacity (based on Day 7 of Base Buffering Capacitiy test).
*XDD recommends that a TOD of less than **2.5** g/Kg should not be used for field estimation purposes.*

Table 2
Injection Simulation Results Summary: VOCs in Groundwater

13th Street Plaza Former MGP Site
Boulder, Colorado

Test Condition	Groundwater - Low Spike[1]					Groundwater - High Spike[2]				
	Control	100 g/L AAP		200 g/L AAP		Control	100 g/L AAP		200 g/L AAP	
Sample ID	Low Spike Control	Low Spike Low Oxidant		Low Spike High Oxidant		High Spike Control	High Spike Low Oxidant		High Spike High Oxidant	
VOCs (EPA Method 8260C)	µg/L	µg/L	% Reduction	µg/L	% Reduction	µg/L	µg/L	% Reduction	µg/L	% Reduction
Benzene	**13,000**	**910**	**93**	**710**	**95**	**110,000**	**14,000**	**87**	**7,000**	**94**
Toluene	**12,000**	**1,100**	**91**	**360**	**97**	**94,000**	**16,000**	**83**	**5,600**	**94**
Ethylbenzene	**5,200**	**1,300 E**	**75**	**670**	**87**	**29,000**	**7,900**	**73**	**5,100**	**82**
m&p-Xylenes	**5,100**	**1,200**	**76**	**610**	**88**	**27,000**	**7,200**	**73**	**8,900**	**67**
o-Xylene	**2,700**	**640**	**76**	**320**	**88**	**15,000**	**4,100**	**73**	**4,900**	**67**
Naphthalene	**16,000**	**11,000**	**31**	**7,400**	**54**	**22,000**	**11,000**	**50**	**43,000**	**-95**
Total Detected VOCs[3]	**54,000**	**16,150**	**70**	**10,070**	**81**	**297,000**	**60,200**	**80**	**74,500**	**75**

Notes:
VOCs = volatile organic compounds
AAP = alkaline activated persulfate
g/L = grams per liter
µg/L = micrograms per liter
N/A = not applicable; all concentrations were non-detect.
> = greater than, indicated for compounds that were non-detect compared to the control
U = not detected at the indicated concentration
E = estimated concentration
[1] The low spike test conditions were spiked with contaminants to target approximately 16 milligrams per kilogram (mg/kg) benzene, 31 mg/kg toluene, 35 mg/kg ethylbenzene, 35 mg/kg p-xylene, 17 mg/kg o-xylene, and 880 mg/kg naphthalene on soil.
[2] The high spike test conditions were spiked with contaminants to target approximately 95 mg/kg benzene, 240 mg/kg toluene, 230 mg/kg ethylbenzene, 210 mg/kg p-xylene, 110 mg/kg o-xylene, and 6,300 mg/kg naphthalene on soil.
[3] Only detected compounds are shown, with the exception of acetone (340 µg/L) and 2-butanone (33 µg/L) detected in the Low Spike Low Oxidant sample, bromomethane (12 J µg/L) and chloroform (100 µg/L) detected in the Low Spike High Oxidant sample, acetone (790 µg/L), carbon disulfide (6 µg/L), methyl t-butyl ether (5 µg/L), and 2-butanone (74 µg/L) detected in the High Spike Low Oxidant sample, and acetone (120 µg/L), carbon disulfide (11 µg/L), methyl t-butyl ether (9 µg/L), and 2-butanone (53 µg/L) detected in the Low Spike Control. These compounds are common laboratory contaminants and/or by-products known to occur during ISCO processes.
[4] The control reactors did not contain the oxidant.
[5] Percent reductions were calculated by comparison with the control.
[6] For the purposes of this evaluation, the sample detection limit was used as the concentration value for compounds reported as non-detect.

Table 3
Injection Simulation Results Summary: VOCs in Soil

13th Street Plaza Former MGP Site
Boulder, Colorado

Test Condition	Soil - Low Spike[1]										
	Control			100 g/L AAP				200 g/L AAP			
Sample ID	Low Spike Control	Low Spike Control Dupe	Average	Low Spike Low Oxidant	Low Spike Low Oxidant Dupe	Average	% Reduction	Low Spike High Oxidant	Low Spike High Oxidant Dupe	Average	% Reduction
VOCs (EPA Method 8260C)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	
Benzene	5.4 U	**9.7**	**7.6**	2.5 U	5.4 U	4.0 U	**> 48**	2.1 U	3.4 U	2.8 U	**> 64**
Toluene	**9.9**	**26**	**18**	**6.0**	**7.5**	**6.8**	**62**	**3.2**	3.4 U	**3.3**	**82**
Ethylbenzene	**14**	**32**	**23**	**19**	**20**	**19.5**	**15**	**8.8**	**14**	**11.4**	**50**
m&p-Xylenes	**15**	**32**	**24**	**19**	**20**	**19.5**	**17**	**9.1**	**13**	**11.1**	**53**
o-Xylene	**8.0**	**16**	**12**	**8.8**	**9.4**	**9.1**	**24**	**4.2**	**6.4**	**5.3**	**56**
Naphthalene	**620 J**	**610 J**	**615 J**	**790 J**	**760 J**	**775 J**	**-26**	**370**	**810 J**	**590 J**	**4**
Total Detected VOCs[3]	**667**	**726**	**699**	**843**	**817**	**830**	**-19**	**395**	**843**	**621**	**> 11**

Test Condition	Soil - High Spike[2]										
	Control			100 g/L AAP				200 g/L AAP			
Sample ID	High Spike Control	High Spike Control Dupe	Average	High Spike Low Oxidant	High Spike Low Oxidant Dupe	Average	% Reduction	High Spike High Oxidant	High Spike High Oxidant Dupe	Average	% Reduction
VOCs (EPA Method 8260C)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	
Benzene	**95**	**140**	**118**	**36**	54 U	**45**	**62**	**36**	**57**	**47**	**60**
Toluene	**300**	**410**	**355**	**170**	**210**	**190**	**46**	**120**	**150**	**135**	**62**
Ethylbenzene	**280**	**390**	**335**	**250**	**290**	**270**	**19**	**230**	**240**	**235**	**30**
m&p-Xylenes	**260**	**370**	**315**	**240**	**270**	**255**	**19**	**220**	**220**	**220**	**30**
o-Xylene	**140**	**200**	**170**	**130**	**150**	**140**	**18**	**120**	**120**	**120**	**29**
Naphthalene	**4,100 J**	**6,300 E**	**5,200**	**8,400 J**	**9,000 J**	**8,700 J**	**-67**	**4,100 J**	**3,200 J**	**3,650 J**	**30**
Total Detected VOCs[3]	**5,175**	**7,810**	**6,493**	**9,226**	**9,920**	**9,600**	**-48**	**4,826**	**3,987**	**4,407**	**32**

Notes:
VOCs = volatile organic compounds
AAP = alkaline activated persulfate
g/L = grams per liter
mg/kg = milligrams per kilogram
N/A = not applicable; all concentrations were non-detect.
> = greater than, indicated for compounds that were non-detect compared to the control
U = not detected at the indicated concentration
J = the percent recovery for the LCS/D was above the acceptance criteria as a result of carryover from a previous analysis. The reported result is an estimate.
E = the analytical result was above the instrument calibration range. The reported concentration is an estimate.
[1] The low spike test conditions were spiked with contaminants to target approximately 16 mg/kg benzene, 31 mg/kg toluene, 35 mg/kg ethylbenzene, 35 mg/kg p-xylene, 17 mg/kg o-xylene, and 880 mg/kg naphthalene on soil.
[2] The high spike test conditions were spiked with contaminants to target approximately 95 mg/kg benzene, 240 mg/kg toluene, 230 mg/kg ethylbenzene, 210 mg/kg p-xylene, 110 mg/kg o-xylene, and 6,300 mg/kg naphthalene on soil.
[3] Only detected compounds are shown.
[4] The control reactors did not contain the oxidant.
[5] Percent reductions were calculated by comparison with the control.
[6] For the purposes of this evaluation, the sample detection limit was used as the concentration value for compounds reported as non-detect.

Table 4
Degradation Ratios: Treatment with Alkaline Activated Persulfate

13th Street Plaza Former MGP Site
Boulder, Colorado

Test Condition	Oxidant Utilized *(g)*	Total Detected Mass *(µg)*			Total COC Degradation Ratio[3] (g persulfate/ g contaminant)
		Initial	Final	Total Mass Degraded	
Low Spike[1]					
100 g/L AAP	1.86	36,245	41,880	-5,635	**N/A**
200 g/L AAP	3.12	36,245	31,294	4,951	**149**
High Spike[2]					
100 g/L AAP	1.87	331,747	481,444	-149,697	**N/A**
200 g/L AAP	3.44	331,747	222,112	109,636	**9.6**

Notes:
BTEX = benzene, toluene, ethylbenzene, total xylenes
g/L = grams per liter
µg = micrograms
AAP = alkaline activated persulfate
N/A = not applicable, the data indicated no reduction in concentrations compared to the control; therefore, a degradation ratio could not be caluclated.
[1] The low spike test conditions were spiked with contaminants to target approximately 16 milligrams per kilogram (mg/kg) benzene, 31 mg/kg toluene, 35 mg/kg ethylbenzene, 35 mg/kg p-xylene, 17 mg/kg o-xylene, and 880 mg/kg naphthalene on soil.
[2] The high spike test conditions were spiked with contaminants to target approximately 95 mg/kg benzene, 240 mg/kg toluene, 230 mg/kg ethylbenzene, 210 mg/kg p-xylene, 110 mg/kg o-xylene, and 6,300 mg/kg naphthalene on soil.
[3] Degradation ratio calculated for total COC (BTEX and naphthalene) concentration compared to the control.

Appendix A

Laboratory Analytical Data Reports

Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

Laurel Crawford
Xpert Design & Diagnostics, LLC
22 Marin Way
Unit 3
Stratham, NH 03885

PO Number: 3862
Job ID: 35246
Date Received: 12/15/15

Project: 13th St. Plaza 15028

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 12/23/2015
Total number of pages: 8

Absolute Resource Associates Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: 13th St. Plaza 15028
Job ID: 35246
Sample#: 35246-001
Sample ID: MW-10 Base
Matrix: Water
Sampled: 12/14/15 15:05

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
chloromethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
vinyl chloride	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
bromomethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
chloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
diethyl ether	< 5	5	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
acetone	< 50	50	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
methylene chloride	< 5	5	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
carbon disulfide	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
chloroform	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
bromochloromethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
carbon tetrachloride	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
benzene	**13**	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
trichloroethene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
bromodichloromethane	< 1	1	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
dibromomethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
toluene	**9**	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
2-hexanone	< 10	10	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
tetrachloroethene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
dibromochloromethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
chlorobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
ethylbenzene	**45**	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
m&p-xylenes	**16**	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C

Absolute Resource associates

Project ID: 13th St. Plaza 15028
Job ID: 35246
Sample#: 35246-001
Sample ID: MW-10 Base
Matrix: Water
Sampled: 12/14/15 15:05

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**48**	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
styrene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
bromoform	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
isopropylbenzene	**16**	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
n-propylbenzene	**3**	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
bromobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,3,5-trimethylbenzene	**10**	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
2-chlorotoluene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
4-chlorotoluene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
tert-butylbenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,2,4-trimethylbenzene	**41**	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
sec-butylbenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
n-butylbenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
naphthalene	**500**	5	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**93**	78-114	%	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
toluene-D8 SUR	**101**	88-110	%	1	LMM		1503797	12/15/15	20:20	SW5030C8260C
4-bromofluorobenzene SUR	**101**	86-115	%	1	LMM		1503797	12/15/15	20:20	SW5030C8260C

Absolute Resource associates

Project ID: 13th St. Plaza 15028
Job ID: 35246
Sample#: 35246-002
Sample ID: PBT-B1 Base
Matrix: Solid Percent Dry: 89.6% Results expressed on a dry weight basis.
Sampled: 12/14/15 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
chloromethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
vinyl chloride	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
bromomethane	< 0.5	0.5	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
chloroethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
trichlorofluoromethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
diethyl ether	< 1.1	1.1	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
acetone	< 5	5	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,1-dichloroethene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
methylene chloride	< 0.5	0.5	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
carbon disulfide	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
methyl t-butyl ether (MTBE)	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
trans-1,2-dichloroethene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,1-dichloroethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
2-butanone (MEK)	< 0.7	0.7	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
2,2-dichloropropane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
cis-1,2-dichloroethene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
chloroform	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
bromochloromethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
tetrahydrofuran (THF)	< 1.1	1.1	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,1,1-trichloroethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,1-dichloropropene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
carbon tetrachloride	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,2-dichloroethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
benzene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
trichloroethene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,2-dichloropropane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
bromodichloromethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
dibromomethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 1.0	1.0	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
cis-1,3-dichloropropene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
toluene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
trans-1,3-dichloropropene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
2-hexanone	< 1.1	1.1	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,1,2-trichloroethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,3-dichloropropane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
tetrachloroethene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
dibromochloromethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,2-dibromoethane (EDB)	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
chlorobenzene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,1,1,2-tetrachloroethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
ethylbenzene	**0.7**	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
m&p-xylenes	**0.5**	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C

Absolute Resource associates

Project ID: 13th St. Plaza 15028
Job ID: 35246
Sample#: 35246-002
Sample ID: PBT-B1 Base
Matrix: Solid Percent Dry: 89.6% Results expressed on a dry weight basis.
Sampled: 12/14/15 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**0.4**	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
styrene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
bromoform	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
isopropylbenzene	**0.6**	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,1,2,2-tetrachloroethane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,2,3-trichloropropane	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
n-propylbenzene	**0.3**	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
bromobenzene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,3,5-trimethylbenzene	**1.6**	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
2-chlorotoluene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
4-chlorotoluene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
tert-butylbenzene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,2,4-trimethylbenzene	**4.2**	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
sec-butylbenzene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,3-dichlorobenzene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
4-isopropyltoluene	**0.5**	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,4-dichlorobenzene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,2-dichlorobenzene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
n-butylbenzene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
1,2,4-trichlorobenzene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
hexachlorobutadiene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
naphthalene	**130**	5.5	ug/g	20	LMM	12/18/15	8460	12/21/15	23:11	SW5035A8260C
1,2,3-trichlorobenzene	< 0.2	0.2	ug/g	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**86**	78-114	%	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
toluene-D8 SUR	**104**	88-110	%	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
4-bromofluorobenzene SUR	**102**	86-115	%	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C
a,a,a-trifluorotoluene SUR	**106**	70-130	%	2	LMM	12/18/15	8460	12/18/15	18:45	SW5035A8260C

Absolute Resource associates

Project ID: 13th St. Plaza 15028
Job ID: 35246
Sample#: 35246-003
Sample ID: MW-10 Dup Base
Matrix: Water
Sampled: 12/14/15 15:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
chloromethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
vinyl chloride	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
bromomethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
chloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
diethyl ether	< 5	5	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
acetone	< 50	50	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
methylene chloride	< 5	5	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
carbon disulfide	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
chloroform	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
bromochloromethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
carbon tetrachloride	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
benzene	**13**	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
trichloroethene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
bromodichloromethane	< 1	1	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
dibromomethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
toluene	**10**	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
2-hexanone	< 10	10	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
tetrachloroethene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
dibromochloromethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
chlorobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
ethylbenzene	**46**	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
m&p-xylenes	**16**	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C

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Project ID: 13th St. Plaza 15028
Job ID: 35246
Sample#: 35246-003
Sample ID: MW-10 Dup Base
Matrix: Water
Sampled: 12/14/15 15:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**49**	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
styrene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
bromoform	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
isopropylbenzene	**16**	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
n-propylbenzene	**3**	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
bromobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,3,5-trimethylbenzene	**10**	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
2-chlorotoluene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
4-chlorotoluene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
tert-butylbenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,2,4-trimethylbenzene	**44**	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
sec-butylbenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
n-butylbenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
naphthalene	**390**	25	ug/L	5	LMM		1503797	12/18/15	18:17	SW5030C8260C
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**92**	78-114	%	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
toluene-D8 SUR	**101**	88-110	%	1	LMM		1503797	12/15/15	20:48	SW5030C8260C
4-bromofluorobenzene SUR	**100**	86-115	%	1	LMM		1503797	12/15/15	20:48	SW5030C8260C

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Portsmouth, NH 03801
603-436-2001
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CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

35246

Company Name: XDD

Company Address: 22 Mary Way Unit 3 Stratham, NH 03885

Report To: Lcrawford@xdd-llc.com
OShaughnessy@xdd-llc.com

Phone #: 603-778-1100

Invoice to Email: AP@xdd-llc.com

☐ Hard Copy Invoice Required

Project Name: 13th St. Plaza

Project #: 15028

Project Location: NH MA ME VT NY ____ Other

Protocol: RCRA MCP SDWA NHDES NPDES OTHER

Reporting Limits: QAPP EPA DW GW-1 Other ____ S-1

Quote #____ ☐ NH Reimbursement Pricing

PO # 3862

ANALYSIS REQUEST

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	Sampling: DATE	TIME	SAMPLER	☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP	☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT	☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ 1,4-Dioxane	☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:	☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint	☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB	☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB	☐ O&G 1664 ☐ Mineral O&G SM5520F	☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity	☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity	☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness	☐ Total Metals-list:	☐ Dissolved Metals-list:	☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC	☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN	☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P	☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride	☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP	☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide	Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde				Grab (G) or Composite (C)
35246-01	MW-10 Base	2	X			X					12/14/15	1505	LC	X																						
-02	ABT-B1 Base	2		X							↓	1500	↓	X																						
-03	MW-10 dup Base	2	X			X					↓	1510	↓	X																						

TAT REQUESTED

Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed ____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☐ PDF (e-mail address)____
☐ HARD COPY REQUIRED ☐ FAX (FAX#)____

RECEIVED ON ICE ☑ YES ☐ NO
TEMPERATURE 2 °C

CUSTODY RECORD

QSD-01 Revision 01/09/15

Relinquished by Sampler:	Date	Time	Received by:	Date	Time
[signature]	12/15/15	10:15	[signature]	12/15/15	10:15
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time

Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

Laurel Crawford
Xpert Design & Diagnostics, LLC
22 Marin Way
Unit 3
Stratham, NH 03885

PO Number: 3862
Job ID: 35596
Date Received: 2/2/16

Project: 13th Street Plaza 15028

Attached please find results for the analysis of the samples received on the date referenced above.

The unpreserved aqueous portion of the sample was decanted from the solid portion and each matrix was analyzed separately as requested on the chain of custody.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 2/18/2016
Total number of pages: 39

Absolute Resource Associates Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-001
Sample ID: Low Spike Low Oxidant
Matrix: Solid Percent Dry: 84.8% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
chloromethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
vinyl chloride	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
bromomethane	< 6.3	6.3	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
chloroethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
trichlorofluoromethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
diethyl ether	< 12.7	12.7	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
acetone	< 63	63	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,1-dichloroethene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
methylene chloride	< 6.3	6.3	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
carbon disulfide	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
methyl t-butyl ether (MTBE)	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
trans-1,2-dichloroethene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,1-dichloroethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
2-butanone (MEK)	< 7.6	7.6	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
2,2-dichloropropane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
cis-1,2-dichloroethene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
chloroform	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
bromochloromethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
tetrahydrofuran (THF)	< 12.7	12.7	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,1,1-trichloroethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,1-dichloropropene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
carbon tetrachloride	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,2-dichloroethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
benzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
trichloroethene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,2-dichloropropane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
bromodichloromethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
dibromomethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 11.4	11.4	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
cis-1,3-dichloropropene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
toluene	**6.0**	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
trans-1,3-dichloropropene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
2-hexanone	< 12.7	12.7	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,1,2-trichloroethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,3-dichloropropane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
tetrachloroethene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
dibromochloromethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,2-dibromoethane (EDB)	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
chlorobenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,1,1,2-tetrachloroethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
ethylbenzene	**19**	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
m&p-xylenes	**19**	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-001
Sample ID: Low Spike Low Oxidant
Matrix: Solid Percent Dry: 84.8% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**8.8**	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
styrene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
bromoform	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
isopropylbenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,1,2,2-tetrachloroethane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,2,3-trichloropropane	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
n-propylbenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
bromobenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,3,5-trimethylbenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
2-chlorotoluene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
4-chlorotoluene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
tert-butylbenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,2,4-trimethylbenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
sec-butylbenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,3-dichlorobenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
4-isopropyltoluene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,4-dichlorobenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,2-dichlorobenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
n-butylbenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
1,2,4-trichlorobenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
hexachlorobutadiene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
naphthalene	**790** J	16	ug/g	50	LMM	2/9/16	8582	2/12/16	20:04	SW5035A8260C
1,2,3-trichlorobenzene	< 2.5	2.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**103**	78-114	%	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
toluene-D8 SUR	**106**	88-110	%	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
4-bromofluorobenzene SUR	**103**	86-115	%	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C
a,a,a-trifluorotoluene SUR	**120**	70-130	%	20	LMM	2/9/16	8582	2/9/16	20:21	SW5035A8260C

J = The percent recovery for the LCS/D was above the acceptance criteria as a result of carry over from a previous analysis. The reported result is an estimate.

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-002
Sample ID: Low Spike Low Oxidant Dup
Matrix: Solid Percent Dry: 86.5% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
chloromethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
vinyl chloride	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
bromomethane	< 13	13	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
chloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
trichlorofluoromethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
diethyl ether	< 26.8	26.8	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
acetone	< 130	130	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,1-dichloroethene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
methylene chloride	< 13	13	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
carbon disulfide	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
methyl t-butyl ether (MTBE)	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
trans-1,2-dichloroethene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,1-dichloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
2-butanone (MEK)	< 16.1	16.1	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
2,2-dichloropropane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
cis-1,2-dichloroethene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
chloroform	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
bromochloromethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
tetrahydrofuran (THF)	< 26.8	26.8	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,1,1-trichloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,1-dichloropropene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
carbon tetrachloride	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,2-dichloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
benzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
trichloroethene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,2-dichloropropane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
bromodichloromethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
dibromomethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 24.1	24.1	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
cis-1,3-dichloropropene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
toluene	**7.5**	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
trans-1,3-dichloropropene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
2-hexanone	< 26.8	26.8	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,1,2-trichloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,3-dichloropropane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
tetrachloroethene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
dibromochloromethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,2-dibromoethane (EDB)	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
chlorobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,1,1,2-tetrachloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
ethylbenzene	**20**	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
m&p-xylenes	**20**	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-002
Sample ID: Low Spike Low Oxidant Dup
Matrix: Solid Percent Dry: 86.5% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**9.4**	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
styrene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
bromoform	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
isopropylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,1,2,2-tetrachloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,2,3-trichloropropane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
n-propylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
bromobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,3,5-trimethylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
2-chlorotoluene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
4-chlorotoluene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
tert-butylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,2,4-trimethylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
sec-butylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,3-dichlorobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
4-isopropyltoluene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,4-dichlorobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,2-dichlorobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
n-butylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,2,4-trichlorobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
hexachlorobutadiene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
naphthalene	**760** J	13	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
1,2,3-trichlorobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**104**	78-114	%	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
toluene-D8 SUR	**107**	88-110	%	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
4-bromofluorobenzene SUR	**102**	86-115	%	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C
a,a,a-trifluorotoluene SUR	**111**	70-130	%	50	LMM	2/9/16	8582	2/12/16	20:32	SW5035A8260C

J = The percent recovery for the LCS/D was above the acceptance criteria as a result of carry over from a previous analysis. The reported result is an estimate.

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-003
Sample ID: Low Spike High Oxidant
Matrix: Solid Percent Dry: 93.9% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
chloromethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
vinyl chloride	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
bromomethane	< 5.3	5.3	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
chloroethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
trichlorofluoromethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
diethyl ether	< 10.5	10.5	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
acetone	< 53	53	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,1-dichloroethene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
methylene chloride	< 5.3	5.3	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
carbon disulfide	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
methyl t-butyl ether (MTBE)	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
trans-1,2-dichloroethene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,1-dichloroethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
2-butanone (MEK)	< 6.3	6.3	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
2,2-dichloropropane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
cis-1,2-dichloroethene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
chloroform	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
bromochloromethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
tetrahydrofuran (THF)	< 10.5	10.5	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,1,1-trichloroethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,1-dichloropropene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
carbon tetrachloride	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,2-dichloroethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
benzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
trichloroethene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,2-dichloropropane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
bromodichloromethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
dibromomethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 9.5	9.5	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
cis-1,3-dichloropropene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
toluene	**3.2**	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
trans-1,3-dichloropropene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
2-hexanone	< 10.5	10.5	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,1,2-trichloroethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,3-dichloropropane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
tetrachloroethene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
dibromochloromethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,2-dibromoethane (EDB)	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
chlorobenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,1,1,2-tetrachloroethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
ethylbenzene	**8.8**	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
m&p-xylenes	**9.1**	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-003
Sample ID: Low Spike High Oxidant
Matrix: Solid Percent Dry: 93.9% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**4.2**	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
styrene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
bromoform	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
isopropylbenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,1,2,2-tetrachloroethane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,2,3-trichloropropane	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
n-propylbenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
bromobenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,3,5-trimethylbenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
2-chlorotoluene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
4-chlorotoluene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
tert-butylbenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,2,4-trimethylbenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
sec-butylbenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,3-dichlorobenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
4-isopropyltoluene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,4-dichlorobenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,2-dichlorobenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
n-butylbenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,2,4-trichlorobenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
hexachlorobutadiene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
naphthalene	**370**	5.3	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
1,2,3-trichlorobenzene	< 2.1	2.1	ug/g	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**102**	78-114	%	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
toluene-D8 SUR	**105**	88-110	%	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
4-bromofluorobenzene SUR	**102**	86-115	%	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C
a,a,a-trifluorotoluene SUR	**104**	70-130	%	20	LMM	2/9/16	8582	2/9/16	19:53	SW5035A8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-004
Sample ID: Low Spike High Oxidant Dup
Matrix: Solid Percent Dry: 73.5% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
chloromethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
vinyl chloride	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
bromomethane	< 8.6	8.6	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
chloroethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
trichlorofluoromethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
diethyl ether	< 17.1	17.1	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
acetone	< 86	86	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,1-dichloroethene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
methylene chloride	< 8.6	8.6	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
carbon disulfide	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
methyl t-butyl ether (MTBE)	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
trans-1,2-dichloroethene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,1-dichloroethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
2-butanone (MEK)	< 10.3	10.3	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
2,2-dichloropropane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
cis-1,2-dichloroethene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
chloroform	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
bromochloromethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
tetrahydrofuran (THF)	< 17.1	17.1	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,1,1-trichloroethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,1-dichloropropene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
carbon tetrachloride	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,2-dichloroethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
benzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
trichloroethene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,2-dichloropropane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
bromodichloromethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
dibromomethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 15.4	15.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
cis-1,3-dichloropropene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
toluene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
trans-1,3-dichloropropene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
2-hexanone	< 17.1	17.1	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,1,2-trichloroethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,3-dichloropropane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
tetrachloroethene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
dibromochloromethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,2-dibromoethane (EDB)	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
chlorobenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,1,1,2-tetrachloroethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
ethylbenzene	**14**	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
m&p-xylenes	**13**	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-004
Sample ID: Low Spike High Oxidant Dup
Matrix: Solid Percent Dry: 73.5% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**6.4**	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
styrene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
bromoform	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
isopropylbenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,1,2,2-tetrachloroethane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,2,3-trichloropropane	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
n-propylbenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
bromobenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,3,5-trimethylbenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
2-chlorotoluene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
4-chlorotoluene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
tert-butylbenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,2,4-trimethylbenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
sec-butylbenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,3-dichlorobenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
4-isopropyltoluene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,4-dichlorobenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,2-dichlorobenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
n-butylbenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,2,4-trichlorobenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
hexachlorobutadiene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
naphthalene	**810** J	8.6	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
1,2,3-trichlorobenzene	< 3.4	3.4	ug/g	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**102**	78-114	%	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
toluene-D8 SUR	**106**	88-110	%	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
4-bromofluorobenzene SUR	**101**	86-115	%	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C
a,a,a-trifluorotoluene SUR	**113**	70-130	%	20	LMM	2/9/16	8582	2/12/16	21:56	SW5035A8260C

J = The percent recovery for the LCS/D was above the acceptance criteria as a result of carry over from a previous analysis. The reported result is an estimate.

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-005
Sample ID: High Spike Low Oxidant
Matrix: Solid Percent Dry: 84.1% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
chloromethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
vinyl chloride	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
bromomethane	< 16	16	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
chloroethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
trichlorofluoromethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
diethyl ether	< 32.0	32.0	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
acetone	< 160	160	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,1-dichloroethene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
methylene chloride	< 16	16	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
carbon disulfide	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
methyl t-butyl ether (MTBE)	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
trans-1,2-dichloroethene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,1-dichloroethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
2-butanone (MEK)	< 19.2	19.2	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
2,2-dichloropropane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
cis-1,2-dichloroethene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
chloroform	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
bromochloromethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
tetrahydrofuran (THF)	< 32.0	32.0	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,1,1-trichloroethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,1-dichloropropene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
carbon tetrachloride	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,2-dichloroethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
benzene	**36**	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
trichloroethene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,2-dichloropropane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
bromodichloromethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
dibromomethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 28.8	28.8	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
cis-1,3-dichloropropene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
toluene	**170**	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
trans-1,3-dichloropropene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
2-hexanone	< 32.0	32.0	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,1,2-trichloroethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,3-dichloropropane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
tetrachloroethene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
dibromochloromethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,2-dibromoethane (EDB)	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
chlorobenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,1,1,2-tetrachloroethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
ethylbenzene	**250**	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
m&p-xylenes	**240**	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-005
Sample ID: High Spike Low Oxidant
Matrix: Solid Percent Dry: 84.1% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**130**	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
styrene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
bromoform	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
isopropylbenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,1,2,2-tetrachloroethane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,2,3-trichloropropane	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
n-propylbenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
bromobenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,3,5-trimethylbenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
2-chlorotoluene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
4-chlorotoluene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
tert-butylbenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,2,4-trimethylbenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
sec-butylbenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,3-dichlorobenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
4-isopropyltoluene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,4-dichlorobenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,2-dichlorobenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
n-butylbenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
1,2,4-trichlorobenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
hexachlorobutadiene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
naphthalene	**8400** J	130	ug/g	400	LMM	2/9/16	8582	2/12/16	18:12	SW5035A8260C
1,2,3-trichlorobenzene	< 6.4	6.4	ug/g	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**98**	78-114	%	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
toluene-D8 SUR	**102**	88-110	%	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
4-bromofluorobenzene SUR	**108**	86-115	%	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C
a,a,a-trifluorotoluene SUR	**121**	70-130	%	50	LMM	2/9/16	8582	2/9/16	21:17	SW5035A8260C

J = The percent recovery for the LCS/D was above the acceptance criteria as a result of carry over from a previous analysis. The reported result is an estimate.

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-006
Sample ID: High Spike Low Oxidant Dup
Matrix: Solid Percent Dry: 82.4% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
chloromethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
vinyl chloride	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
bromomethane	< 130	130	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
chloroethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
trichlorofluoromethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
diethyl ether	< 270	270	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
acetone	< 1300	1300	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,1-dichloroethene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
methylene chloride	< 130	130	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
carbon disulfide	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
methyl t-butyl ether (MTBE)	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
trans-1,2-dichloroethene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,1-dichloroethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
2-butanone (MEK)	< 160	160	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
2,2-dichloropropane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
cis-1,2-dichloroethene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
chloroform	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
bromochloromethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
tetrahydrofuran (THF)	< 270	270	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,1,1-trichloroethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,1-dichloropropene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
carbon tetrachloride	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,2-dichloroethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
benzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
trichloroethene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,2-dichloropropane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
bromodichloromethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
dibromomethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 240	240	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
cis-1,3-dichloropropene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
toluene	**210**	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
trans-1,3-dichloropropene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
2-hexanone	< 270	270	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,1,2-trichloroethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,3-dichloropropane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
tetrachloroethene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
dibromochloromethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,2-dibromoethane (EDB)	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
chlorobenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,1,1,2-tetrachloroethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
ethylbenzene	**290**	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
m&p-xylenes	**270**	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-006
Sample ID: High Spike Low Oxidant Dup
Matrix: Solid Percent Dry: 82.4% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**150**	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
styrene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
bromoform	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
isopropylbenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,1,2,2-tetrachloroethane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,2,3-trichloropropane	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
n-propylbenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
bromobenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,3,5-trimethylbenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
2-chlorotoluene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
4-chlorotoluene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
tert-butylbenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,2,4-trimethylbenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
sec-butylbenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,3-dichlorobenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
4-isopropyltoluene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,4-dichlorobenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,2-dichlorobenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
n-butylbenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,2,4-trichlorobenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
hexachlorobutadiene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
naphthalene	**9000** J	130	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
1,2,3-trichlorobenzene	< 54	54	ug/g	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**107**	78-114	%	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
toluene-D8 SUR	**107**	88-110	%	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
4-bromofluorobenzene SUR	**106**	86-115	%	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C
a,a,a-trifluorotoluene SUR	**76**	70-130	%	400	LMM	2/9/16	8582	2/12/16	18:40	SW5035A8260C

J = The percent recovery for the LCS/D was above the acceptance criteria as a result of carry over from a previous analysis. The reported result is an estimate.

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-007
Sample ID: High Spike High Oxidant
Matrix: Solid Percent Dry: 79.2% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
chloromethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
vinyl chloride	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
bromomethane	< 5.5	5.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
chloroethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
trichlorofluoromethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
diethyl ether	< 10.9	10.9	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
acetone	< 55	55	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,1-dichloroethene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
methylene chloride	< 5.5	5.5	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
carbon disulfide	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
methyl t-butyl ether (MTBE)	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
trans-1,2-dichloroethene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,1-dichloroethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
2-butanone (MEK)	< 6.6	6.6	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
2,2-dichloropropane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
cis-1,2-dichloroethene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
chloroform	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
bromochloromethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
tetrahydrofuran (THF)	< 10.9	10.9	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,1,1-trichloroethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,1-dichloropropene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
carbon tetrachloride	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,2-dichloroethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
benzene	**36**	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
trichloroethene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,2-dichloropropane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
bromodichloromethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
dibromomethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 9.8	9.8	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
cis-1,3-dichloropropene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
toluene	**120**	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
trans-1,3-dichloropropene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
2-hexanone	< 10.9	10.9	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,1,2-trichloroethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,3-dichloropropane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
tetrachloroethene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
dibromochloromethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,2-dibromoethane (EDB)	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
chlorobenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,1,1,2-tetrachloroethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
ethylbenzene	**230**	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
m&p-xylenes	**220**	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-007
Sample ID: High Spike High Oxidant
Matrix: Solid Percent Dry: 79.2% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**120**	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
styrene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
bromoform	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
isopropylbenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,1,2,2-tetrachloroethane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,2,3-trichloropropane	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
n-propylbenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
bromobenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,3,5-trimethylbenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
2-chlorotoluene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
4-chlorotoluene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
tert-butylbenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,2,4-trimethylbenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
sec-butylbenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,3-dichlorobenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
4-isopropyltoluene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,4-dichlorobenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,2-dichlorobenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
n-butylbenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
1,2,4-trichlorobenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
hexachlorobutadiene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
naphthalene	**4100** J	55	ug/g	200	LMM	2/9/16	8582	2/12/16	17:16	SW5035A8260C
1,2,3-trichlorobenzene	< 2.2	2.2	ug/g	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**99**	78-114	%	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
toluene-D8 SUR	**103**	88-110	%	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
4-bromofluorobenzene SUR	**105**	86-115	%	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C
a,a,a-trifluorotoluene SUR	**126**	70-130	%	20	LMM	2/9/16	8582	2/9/16	20:49	SW5035A8260C

J = The percent recovery for the LCS/D was above the acceptance criteria as a result of carry over from a previous analysis. The reported result is an estimate.

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-008
Sample ID: High Spike High Oxidant Dup
Matrix: Solid Percent Dry: 84.4% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
chloromethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
vinyl chloride	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
bromomethane	< 64	64	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
chloroethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
trichlorofluoromethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
diethyl ether	< 130	130	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
acetone	< 640	640	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,1-dichloroethene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
methylene chloride	< 64	64	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
carbon disulfide	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
methyl t-butyl ether (MTBE)	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
trans-1,2-dichloroethene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,1-dichloroethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
2-butanone (MEK)	< 77.2	77.2	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
2,2-dichloropropane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
cis-1,2-dichloroethene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
chloroform	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
bromochloromethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
tetrahydrofuran (THF)	< 130	130	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,1,1-trichloroethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,1-dichloropropene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
carbon tetrachloride	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,2-dichloroethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
benzene	**57**	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
trichloroethene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,2-dichloropropane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
bromodichloromethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
dibromomethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 120	120	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
cis-1,3-dichloropropene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
toluene	**150**	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
trans-1,3-dichloropropene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
2-hexanone	< 130	130	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,1,2-trichloroethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,3-dichloropropane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
tetrachloroethene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
dibromochloromethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,2-dibromoethane (EDB)	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
chlorobenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,1,1,2-tetrachloroethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
ethylbenzene	**240**	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
m&p-xylenes	**220**	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-008
Sample ID: High Spike High Oxidant Dup
Matrix: Solid Percent Dry: 84.4% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**120**	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
styrene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
bromoform	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
isopropylbenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,1,2,2-tetrachloroethane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,2,3-trichloropropane	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
n-propylbenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
bromobenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,3,5-trimethylbenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
2-chlorotoluene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
4-chlorotoluene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
tert-butylbenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,2,4-trimethylbenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
sec-butylbenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,3-dichlorobenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
4-isopropyltoluene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,4-dichlorobenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,2-dichlorobenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
n-butylbenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,2,4-trichlorobenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
hexachlorobutadiene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
naphthalene	**3200** J	64	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
1,2,3-trichlorobenzene	< 26	26	ug/g	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**104**	78-114	%	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
toluene-D8 SUR	**106**	88-110	%	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
4-bromofluorobenzene SUR	**102**	86-115	%	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C
a,a,a-trifluorotoluene SUR	**113**	70-130	%	200	LMM	2/9/16	8582	2/12/16	17:44	SW5035A8260C

J = The percent recovery for the LCS/D was above the acceptance criteria as a result of carry over from a previous analysis. The reported result is an estimate.

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-009
Sample ID: Low Spike Control
Matrix: Solid Percent Dry: 82.3% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
chloromethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
vinyl chloride	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
bromomethane	< 14	14	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
chloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
trichlorofluoromethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
diethyl ether	< 27.2	27.2	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
acetone	< 140	140	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,1-dichloroethene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
methylene chloride	< 14	14	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
carbon disulfide	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
methyl t-butyl ether (MTBE)	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
trans-1,2-dichloroethene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,1-dichloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
2-butanone (MEK)	< 16.3	16.3	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
2,2-dichloropropane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
cis-1,2-dichloroethene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
chloroform	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
bromochloromethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
tetrahydrofuran (THF)	< 27.2	27.2	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,1,1-trichloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,1-dichloropropene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
carbon tetrachloride	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,2-dichloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
benzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
trichloroethene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,2-dichloropropane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
bromodichloromethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
dibromomethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 24.5	24.5	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
cis-1,3-dichloropropene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
toluene	**9.9**	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
trans-1,3-dichloropropene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
2-hexanone	< 27.2	27.2	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,1,2-trichloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,3-dichloropropane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
tetrachloroethene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
dibromochloromethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,2-dibromoethane (EDB)	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
chlorobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,1,1,2-tetrachloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
ethylbenzene	**14**	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
m&p-xylenes	**15**	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-009
Sample ID: Low Spike Control
Matrix: Solid Percent Dry: 82.3% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**8.0**	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
styrene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
bromoform	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
isopropylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,1,2,2-tetrachloroethane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,2,3-trichloropropane	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
n-propylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
bromobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,3,5-trimethylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
2-chlorotoluene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
4-chlorotoluene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
tert-butylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,2,4-trimethylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
sec-butylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,3-dichlorobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
4-isopropyltoluene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,4-dichlorobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,2-dichlorobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
n-butylbenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,2,4-trichlorobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
hexachlorobutadiene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
naphthalene	**620** J	14	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
1,2,3-trichlorobenzene	< 5.4	5.4	ug/g	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**105**	78-114	%	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
toluene-D8 SUR	**107**	88-110	%	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
4-bromofluorobenzene SUR	**100**	86-115	%	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C
a,a,a-trifluorotoluene SUR	**115**	70-130	%	50	LMM	2/9/16	8582	2/12/16	19:08	SW5035A8260C

J = The percent recovery for the LCS/D was above the acceptance criteria as a result of carry over from a previous analysis. The reported result is an estimate.

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-010
Sample ID: Low Spike Control Dup
Matrix: Solid Percent Dry: 83.9% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
chloromethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
vinyl chloride	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
bromomethane	< 13	13	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
chloroethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
trichlorofluoromethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
diethyl ether	< 25.0	25.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
acetone	< 130	130	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,1-dichloroethene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
methylene chloride	< 13	13	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
carbon disulfide	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
methyl t-butyl ether (MTBE)	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
trans-1,2-dichloroethene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,1-dichloroethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
2-butanone (MEK)	< 15.0	15.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
2,2-dichloropropane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
cis-1,2-dichloroethene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
chloroform	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
bromochloromethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
tetrahydrofuran (THF)	< 25.0	25.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,1,1-trichloroethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,1-dichloropropene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
carbon tetrachloride	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,2-dichloroethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
benzene	**9.7**	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
trichloroethene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,2-dichloropropane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
bromodichloromethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
dibromomethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 22.5	22.5	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
cis-1,3-dichloropropene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
toluene	**26**	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
trans-1,3-dichloropropene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
2-hexanone	< 25.0	25.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,1,2-trichloroethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,3-dichloropropane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
tetrachloroethene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
dibromochloromethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,2-dibromoethane (EDB)	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
chlorobenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,1,1,2-tetrachloroethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
ethylbenzene	**32**	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
m&p-xylenes	**32**	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-010
Sample ID: Low Spike Control Dup
Matrix: Solid Percent Dry: 83.9% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**16**	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
styrene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
bromoform	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
isopropylbenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,1,2,2-tetrachloroethane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,2,3-trichloropropane	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
n-propylbenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
bromobenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,3,5-trimethylbenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
2-chlorotoluene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
4-chlorotoluene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
tert-butylbenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,2,4-trimethylbenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
sec-butylbenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,3-dichlorobenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
4-isopropyltoluene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,4-dichlorobenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,2-dichlorobenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
n-butylbenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,2,4-trichlorobenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
hexachlorobutadiene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
naphthalene	**610** J	13	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
1,2,3-trichlorobenzene	< 5.0	5.0	ug/g	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**104**	78-114	%	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
toluene-D8 SUR	**106**	88-110	%	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
4-bromofluorobenzene SUR	**104**	86-115	%	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C
a,a,a-trifluorotoluene SUR	**127**	70-130	%	50	LMM	2/9/16	8582	2/12/16	19:36	SW5035A8260C

J = The percent recovery for the LCS/D was above the acceptance criteria as a result of carry over from a previous analysis. The reported result is an estimate.

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-011
Sample ID: High Spike Control
Matrix: Solid Percent Dry: 84.2% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
chloromethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
vinyl chloride	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
bromomethane	< 55	55	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
chloroethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
trichlorofluoromethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
diethyl ether	< 110	110	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
acetone	< 550	550	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,1-dichloroethene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
methylene chloride	< 55	55	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
carbon disulfide	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
methyl t-butyl ether (MTBE)	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
trans-1,2-dichloroethene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,1-dichloroethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
2-butanone (MEK)	< 66.1	66.1	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
2,2-dichloropropane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
cis-1,2-dichloroethene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
chloroform	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
bromochloromethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
tetrahydrofuran (THF)	< 110	110	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,1,1-trichloroethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,1-dichloropropene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
carbon tetrachloride	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,2-dichloroethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
benzene	**95**	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
trichloroethene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,2-dichloropropane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
bromodichloromethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
dibromomethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 99.1	99.1	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
cis-1,3-dichloropropene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
toluene	**300**	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
trans-1,3-dichloropropene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
2-hexanone	< 110	110	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,1,2-trichloroethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,3-dichloropropane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
tetrachloroethene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
dibromochloromethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,2-dibromoethane (EDB)	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
chlorobenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,1,1,2-tetrachloroethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
ethylbenzene	**280**	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
m&p-xylenes	**260**	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-011
Sample ID: High Spike Control
Matrix: Solid Percent Dry: 84.2% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**140**	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
styrene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
bromoform	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
isopropylbenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,1,2,2-tetrachloroethane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,2,3-trichloropropane	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
n-propylbenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
bromobenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,3,5-trimethylbenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
2-chlorotoluene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
4-chlorotoluene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
tert-butylbenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,2,4-trimethylbenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
sec-butylbenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,3-dichlorobenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
4-isopropyltoluene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,4-dichlorobenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,2-dichlorobenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
n-butylbenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,2,4-trichlorobenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
hexachlorobutadiene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
naphthalene	**4100** J	55	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
1,2,3-trichlorobenzene	< 22	22	ug/g	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**103**	78-114	%	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
toluene-D8 SUR	**107**	88-110	%	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
4-bromofluorobenzene SUR	**104**	86-115	%	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C
a,a,a-trifluorotoluene SUR	**127**	70-130	%	200	LMM	2/9/16	8582	2/12/16	21:00	SW5035A8260C

J = The percent recovery for the LCS/D was above the acceptance criteria as a result of carry over from a previous analysis. The reported result is an estimate.

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-012
Sample ID: High Spike Control Dup
Matrix: Solid Percent Dry: 84.8% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
chloromethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
vinyl chloride	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
bromomethane	< 53	53	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
chloroethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
trichlorofluoromethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
diethyl ether	< 110	110	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
acetone	< 530	530	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,1-dichloroethene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
methylene chloride	< 53	53	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
carbon disulfide	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
methyl t-butyl ether (MTBE)	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
trans-1,2-dichloroethene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,1-dichloroethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
2-butanone (MEK)	< 63.2	63.2	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
2,2-dichloropropane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
cis-1,2-dichloroethene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
chloroform	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
bromochloromethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
tetrahydrofuran (THF)	< 110	110	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,1,1-trichloroethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,1-dichloropropene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
carbon tetrachloride	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,2-dichloroethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
benzene	**140**	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
trichloroethene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,2-dichloropropane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
bromodichloromethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
dibromomethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
4-methyl-2-pentanone (MIBK)	< 94.8	94.8	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
cis-1,3-dichloropropene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
toluene	**410**	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
trans-1,3-dichloropropene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
2-hexanone	< 110	110	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,1,2-trichloroethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,3-dichloropropane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
tetrachloroethene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
dibromochloromethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,2-dibromoethane (EDB)	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
chlorobenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,1,1,2-tetrachloroethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
ethylbenzene	**390**	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
m&p-xylenes	**370**	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-012
Sample ID: High Spike Control Dup
Matrix: Solid Percent Dry: 84.8% Results expressed on a dry weight basis.
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**200**	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
styrene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
bromoform	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
isopropylbenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,1,2,2-tetrachloroethane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,2,3-trichloropropane	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
n-propylbenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
bromobenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,3,5-trimethylbenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
2-chlorotoluene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
4-chlorotoluene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
tert-butylbenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,2,4-trimethylbenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
sec-butylbenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,3-dichlorobenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
4-isopropyltoluene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,4-dichlorobenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,2-dichlorobenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
n-butylbenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,2-dibromo-3-chloropropane (DBCP)	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,2,4-trichlorobenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
hexachlorobutadiene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
naphthalene	**6300** E	53	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
1,2,3-trichlorobenzene	< 21	21	ug/g	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**104**	78-114	%	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
toluene-D8 SUR	**105**	88-110	%	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
4-bromofluorobenzene SUR	**103**	86-115	%	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C
a,a,a-trifluorotoluene SUR	**118**	70-130	%	200	LMM	2/9/16	8582	2/12/16	21:28	SW5035A8260C

E = The analytical result was above the instrument calibration range. The reported concentration is an estimate.

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-013
Sample ID: Low Spike Low Oxidant
Matrix: Water
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
chloromethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
vinyl chloride	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
bromomethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
chloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
trichlorofluoromethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
diethyl ether	< 11	11	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
acetone	**340**	110	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,1-dichloroethene	< 2	2	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
methylene chloride	< 11	11	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
carbon disulfide	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
methyl t-butyl ether (MTBE)	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
trans-1,2-dichloroethene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,1-dichloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
2-butanone (MEK)	**33**	22	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
2,2-dichloropropane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
cis-1,2-dichloroethene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
chloroform	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
bromochloromethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
tetrahydrofuran (THF)	< 22	22	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,1,1-trichloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,1-dichloropropene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
carbon tetrachloride	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,2-dichloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
benzene	**910**	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
trichloroethene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,2-dichloropropane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
bromodichloromethane	< 1	1	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
dibromomethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 22	22	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
cis-1,3-dichloropropene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
toluene	**1100**	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
trans-1,3-dichloropropene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
2-hexanone	< 22	22	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,1,2-trichloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,3-dichloropropane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
tetrachloroethene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
dibromochloromethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,2-dibromoethane (EDB)	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
chlorobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,1,1,2-tetrachloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
ethylbenzene	**1300** E	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
m&p-xylenes	**1200**	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-013
Sample ID: Low Spike Low Oxidant
Matrix: Water
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**640**	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
styrene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
bromoform	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
isopropylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,1,2,2-tetrachloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,2,3-trichloropropane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
n-propylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
bromobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,3,5-trimethylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
2-chlorotoluene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
4-chlorotoluene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
tert-butylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,2,4-trimethylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
sec-butylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,3-dichlorobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
4-isopropyltoluene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,4-dichlorobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,2-dichlorobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
n-butylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
1,2,4-trichlorobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
hexachlorobutadiene	< 1.1	1.1	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
naphthalene	**11000**	5600	ug/L	1111.1	LMM		1600289	2/5/16	12:49	SW5030C8260C
1,2,3-trichlorobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**86**	78-114	%	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
toluene-D8 SUR	**98**	88-110	%	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C
4-bromofluorobenzene SUR	**101**	86-115	%	2.2222	LMM		1600289	2/5/16	19:21	SW5030C8260C

E = The analytical result was above the instrument calibration range. The reported concentration is an estimate. No additional sample remains for reanalysis.

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-014
Sample ID: Low Spike High Oxidant
Matrix: Water
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
chloromethane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
vinyl chloride	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
bromomethane	**12** J	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
J = The associated CCV showed recovery below the acceptance criteria. No additional sample remains for re-analysis. The reported concentration is an estimate.										
chloroethane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
trichlorofluoromethane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
diethyl ether	< 25	25	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
acetone	< 250	250	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,1-dichloroethene	< 5	5	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
methylene chloride	< 25	25	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
carbon disulfide	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
trans-1,2-dichloroethene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,1-dichloroethane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
2-butanone (MEK)	< 50	50	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
2,2-dichloropropane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
cis-1,2-dichloroethene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
chloroform	**100**	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
bromochloromethane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
tetrahydrofuran (THF)	< 50	50	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,1,1-trichloroethane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,1-dichloropropene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
carbon tetrachloride	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,2-dichloroethane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
benzene	**710**	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
trichloroethene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,2-dichloropropane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
bromodichloromethane	< 3	3	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
dibromomethane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 50	50	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
toluene	**360**	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
2-hexanone	< 50	50	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,3-dichloropropane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
tetrachloroethene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
dibromochloromethane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
chlorobenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-014
Sample ID: Low Spike High Oxidant
Matrix: Water
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
ethylbenzene	**670**	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
m&p-xylenes	**610**	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
o-xylene	**320**	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
styrene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
bromoform	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
isopropylbenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
n-propylbenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
bromobenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,3,5-trimethylbenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
2-chlorotoluene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
4-chlorotoluene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
tert-butylbenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,2,4-trimethylbenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
sec-butylbenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
4-isopropyltoluene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
n-butylbenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
naphthalene	**7400**	5000	ug/L	2500	LMM		1600289	2/5/16	13:17	SW5030C8260C
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**60** *	78-114	%	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
toluene-D8 SUR	**101**	88-110	%	5	LMM		1600289	2/5/16	17:28	SW5030C8260C
4-bromofluorobenzene SUR	**103**	86-115	%	5	LMM		1600289	2/5/16	17:28	SW5030C8260C

**** The surrogate showed recovery outside the acceptance limits as a result of an obvious matrix interference.***

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-015
Sample ID: High Spike Low Oxidant
Matrix: Water
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
chloromethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
vinyl chloride	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
bromomethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
chloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
trichlorofluoromethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
diethyl ether	< 11	11	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
acetone	**790**	110	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,1-dichloroethene	< 2	2	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
methylene chloride	< 11	11	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
carbon disulfide	**6**	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
methyl t-butyl ether (MTBE)	**5**	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
trans-1,2-dichloroethene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,1-dichloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
2-butanone (MEK)	**74**	22	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
2,2-dichloropropane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
cis-1,2-dichloroethene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
chloroform	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
bromochloromethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
tetrahydrofuran (THF)	< 22	22	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,1,1-trichloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,1-dichloropropene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
carbon tetrachloride	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,2-dichloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
benzene	**14000**	890	ug/L	444.44	LMM		1600289	2/5/16	13:46	SW5030C8260C
trichloroethene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,2-dichloropropane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
bromodichloromethane	< 1	1	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
dibromomethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 22	22	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
cis-1,3-dichloropropene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
toluene	**16000**	890	ug/L	444.44	LMM		1600289	2/5/16	13:46	SW5030C8260C
trans-1,3-dichloropropene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
2-hexanone	< 22	22	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,1,2-trichloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,3-dichloropropane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
tetrachloroethene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
dibromochloromethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,2-dibromoethane (EDB)	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
chlorobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,1,1,2-tetrachloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
ethylbenzene	**7900**	890	ug/L	444.44	LMM		1600289	2/5/16	13:46	SW5030C8260C
m&p-xylenes	**7200**	890	ug/L	444.44	LMM		1600289	2/5/16	13:46	SW5030C8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-015
Sample ID: High Spike Low Oxidant
Matrix: Water
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**4100**	890	ug/L	444.44	LMM		1600289	2/5/16	13:46	SW5030C8260C
styrene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
bromoform	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
isopropylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,1,2,2-tetrachloroethane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,2,3-trichloropropane	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
n-propylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
bromobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,3,5-trimethylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
2-chlorotoluene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
4-chlorotoluene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
tert-butylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,2,4-trimethylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
sec-butylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,3-dichlorobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
4-isopropyltoluene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,4-dichlorobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,2-dichlorobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
n-butylbenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
1,2,4-trichlorobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
hexachlorobutadiene	< 1.1	1.1	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
naphthalene	**11000**	2200	ug/L	444.44	LMM		1600289	2/5/16	13:46	SW5030C8260C
1,2,3-trichlorobenzene	< 4	4	ug/L	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**89**	78-114	%	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
toluene-D8 SUR	**95**	88-110	%	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C
4-bromofluorobenzene SUR	**106**	86-115	%	2.2222	LMM		1600289	2/5/16	18:25	SW5030C8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-016
Sample ID: High Spike High Oxidant
Matrix: Water
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
chloromethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
vinyl chloride	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
bromomethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
chloroethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
trichlorofluoromethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
diethyl ether	< 50	50	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
acetone	< 500	500	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,1-dichloroethene	< 10	10	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
methylene chloride	< 50	50	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
carbon disulfide	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
methyl t-butyl ether (MTBE)	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
trans-1,2-dichloroethene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,1-dichloroethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
2-butanone (MEK)	< 100	100	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
2,2-dichloropropane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
cis-1,2-dichloroethene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
chloroform	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
bromochloromethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
tetrahydrofuran (THF)	< 100	100	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,1,1-trichloroethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,1-dichloropropene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
carbon tetrachloride	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,2-dichloroethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
benzene	**7000**	4000	ug/L	2000	LMM		1600289	2/5/16	14:14	SW5030C8260C
trichloroethene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,2-dichloropropane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
bromodichloromethane	< 6	6	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
dibromomethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 100	100	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
cis-1,3-dichloropropene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
toluene	**5600**	4000	ug/L	2000	LMM		1600289	2/5/16	14:14	SW5030C8260C
trans-1,3-dichloropropene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
2-hexanone	< 100	100	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,1,2-trichloroethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,3-dichloropropane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
tetrachloroethene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
dibromochloromethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,2-dibromoethane (EDB)	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
chlorobenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,1,1,2-tetrachloroethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
ethylbenzene	**5100**	4000	ug/L	2000	LMM		1600289	2/5/16	14:14	SW5030C8260C
m&p-xylenes	**8900**	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-016
Sample ID: High Spike High Oxidant
Matrix: Water
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**4900**	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
styrene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
bromoform	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
isopropylbenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,1,2,2-tetrachloroethane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,2,3-trichloropropane	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
n-propylbenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
bromobenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,3,5-trimethylbenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
2-chlorotoluene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
4-chlorotoluene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
tert-butylbenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,2,4-trimethylbenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
sec-butylbenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,3-dichlorobenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
4-isopropyltoluene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,4-dichlorobenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,2-dichlorobenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
n-butylbenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
1,2,4-trichlorobenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
hexachlorobutadiene	< 5.0	5.0	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
naphthalene	**43000**	10000	ug/L	2000	LMM		1600289	2/5/16	14:14	SW5030C8260C
1,2,3-trichlorobenzene	< 20	20	ug/L	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**69** *	78-114	%	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
toluene-D8 SUR	**95**	88-110	%	10	LMM		1600289	2/5/16	17:56	SW5030C8260C
4-bromofluorobenzene SUR	**105**	86-115	%	10	LMM		1600289	2/5/16	17:56	SW5030C8260C

**** The surrogate showed recovery outside the acceptance limits as a result of an obvious matrix interference.***

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-017
Sample ID: Low Spike Control
Matrix: Water
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
chloromethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
vinyl chloride	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
bromomethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
chloroethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
trichlorofluoromethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
diethyl ether	< 10	10	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
acetone	**120**	100	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,1-dichloroethene	< 2	2	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
methylene chloride	< 10	10	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
carbon disulfide	**11**	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
methyl t-butyl ether (MTBE)	**9**	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
trans-1,2-dichloroethene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,1-dichloroethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
2-butanone (MEK)	**53**	20	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
2,2-dichloropropane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
cis-1,2-dichloroethene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
chloroform	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
bromochloromethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
tetrahydrofuran (THF)	< 20	20	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,1,1-trichloroethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,1-dichloropropene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
carbon tetrachloride	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,2-dichloroethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
benzene	**13000**	800	ug/L	400	LMM		1600289	2/5/16	14:41	SW5030C8260C
trichloroethene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,2-dichloropropane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
bromodichloromethane	< 1	1	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
dibromomethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 20	20	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
cis-1,3-dichloropropene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
toluene	**12000**	800	ug/L	400	LMM		1600289	2/5/16	14:41	SW5030C8260C
trans-1,3-dichloropropene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
2-hexanone	< 20	20	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,1,2-trichloroethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,3-dichloropropane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
tetrachloroethene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
dibromochloromethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,2-dibromoethane (EDB)	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
chlorobenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,1,1,2-tetrachloroethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
ethylbenzene	**5200**	800	ug/L	400	LMM		1600289	2/5/16	14:41	SW5030C8260C
m&p-xylenes	**5100**	800	ug/L	400	LMM		1600289	2/5/16	14:41	SW5030C8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-017
Sample ID: Low Spike Control
Matrix: Water
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**2700**	800	ug/L	400	LMM		1600289	2/5/16	14:41	SW5030C8260C
styrene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
bromoform	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
isopropylbenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,1,2,2-tetrachloroethane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,2,3-trichloropropane	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
n-propylbenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
bromobenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,3,5-trimethylbenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
2-chlorotoluene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
4-chlorotoluene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
tert-butylbenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,2,4-trimethylbenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
sec-butylbenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,3-dichlorobenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
4-isopropyltoluene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,4-dichlorobenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,2-dichlorobenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
n-butylbenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
1,2,4-trichlorobenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
hexachlorobutadiene	< 1.0	1.0	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
naphthalene	**16000**	2000	ug/L	400	LMM		1600289	2/5/16	14:41	SW5030C8260C
1,2,3-trichlorobenzene	< 4	4	ug/L	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**90**	78-114	%	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
toluene-D8 SUR	**100**	88-110	%	2	LMM		1600289	2/5/16	18:53	SW5030C8260C
4-bromofluorobenzene SUR	**102**	86-115	%	2	LMM		1600289	2/5/16	18:53	SW5030C8260C

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-018
Sample ID: High Spike Control
Matrix: Water
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
chloromethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
vinyl chloride	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
bromomethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
chloroethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
trichlorofluoromethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
diethyl ether	< 2200	2200	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
acetone	< 22000	22000	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,1-dichloroethene	< 440	440	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
methylene chloride	< 2200	2200	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
carbon disulfide	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
methyl t-butyl ether (MTBE)	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
trans-1,2-dichloroethene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,1-dichloroethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
2-butanone (MEK)	< 4400	4400	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
2,2-dichloropropane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
cis-1,2-dichloroethene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
chloroform	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
bromochloromethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
tetrahydrofuran (THF)	< 4400	4400	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,1,1-trichloroethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,1-dichloropropene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
carbon tetrachloride	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,2-dichloroethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
benzene	**110000**	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
trichloroethene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,2-dichloropropane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
bromodichloromethane	< 270	270	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
dibromomethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
4-methyl-2-pentanone (MIBK)	< 4400	4400	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
cis-1,3-dichloropropene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
toluene	**94000**	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
trans-1,3-dichloropropene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
2-hexanone	< 4400	4400	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,1,2-trichloroethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,3-dichloropropane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
tetrachloroethene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
dibromochloromethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,2-dibromoethane (EDB)	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
chlorobenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,1,1,2-tetrachloroethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
ethylbenzene	**29000**	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
m&p-xylenes	**27000**	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C

Absolute Resource associates

Project ID: 13th Street Plaza 15028
Job ID: 35596
Sample#: 35596-018
Sample ID: High Spike Control
Matrix: Water
Sampled: 2/1/16 17:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**15000**	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
styrene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
bromoform	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
isopropylbenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,1,2,2-tetrachloroethane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,2,3-trichloropropane	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
n-propylbenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
bromobenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,3,5-trimethylbenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
2-chlorotoluene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
4-chlorotoluene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
tert-butylbenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,2,4-trimethylbenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
sec-butylbenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,3-dichlorobenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
4-isopropyltoluene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,4-dichlorobenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,2-dichlorobenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
n-butylbenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,2-dibromo-3-chloropropane (DBCP)	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,2,4-trichlorobenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
hexachlorobutadiene	< 220	220	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
naphthalene	**22000**	2200	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
1,2,3-trichlorobenzene	< 890	890	ug/L	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**90**	78-114	%	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
toluene-D8 SUR	**98**	88-110	%	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C
4-bromofluorobenzene SUR	**100**	86-115	%	444.44	LMM		1600289	2/5/16	15:09	SW5030C8260C

Absolute Resource associates

Absolute Resource associates

124 Heritage Avenue #10
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

35596

Company Name: XDD Environmental

Company Address: 22 Marin Way, Unit 3, Stratham, NH 03885

Report To: Laurel Crawford (lcrawford@xdd-llc.com)

Phone #: 603-778-1100

Invoice To: AP@xdd-llc.com

Project Name: 13th Street Plaza

Project #: 15028

Project Location: NH MA ME VT CO Other

Protocol: RCRA MCP SDWA NHDES NPDES OTHER

Reporting Limits: QAPP EPA DW GW-1 Other S-1

Quote #_____ ☐ NH GREE/ODD Fund Pricing

PO # 3862

ANALYSIS REQUEST

☐ VOC 8260 NADEP ☐ VOC 8260 NHDES ☐ VOC 8260 ☒ VOC 8260 ☐ VOC 624 ☐ VOC BTEX ☐ MIBE only ☐ VOC 8021VT ☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List: ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint ☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1 ☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB ☐ O&G 1664 ☐ Mineral O&G SM5520F ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity ☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Total Metals-List: ☐ Dissolved Metals-List: ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitability/FP ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide Subcontract: ☐ TOC ☐ Grain Size ☐ TCLP Herbicides Grab (G) or Composite (C)

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER	VOC 8260
water -13 355-2-64	Low Spike Low Oxidant	1	X	X							ICE	2-1-16	17:30	BC	X
-02	Low Spike Low Oxidant Dup	1		X							ICE	2-1-16	17:30	BC	X
-14 -03	Low Spike High Oxidant	1	X	X							ICE	2-1-16	17:30	BC	X
-04	Low Spike High Oxidant Dup	1		X							ICE	2-1-16	17:30	BC	X
-15 -05	High Spike Low Oxidant	1	X	X							ICE	2-1-16	17:30	BC	X
-06	High Spike Low Oxidant Dup	1		X							ICE	2-1-16	17:30	BC	X
-16 -07	High Spike High Oxidant	1	X	X							ICE	2-1-16	17:30	BC	X
-08	High Spike High Oxidant Dup	1		X							ICE	2-1-16	17:30	BC	X

Use this Chain per EM from Karen D. 2/2/16

TAT REQUESTED
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☒
*Date Needed _____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS 1. Samples are not preserved.
2. Please decant aqueous portion from sample and combine water from duplicate samples for analysis. Analyze soils for all samples
3. Soil samples indicated as "High Spike" contain up to 200 mg/kg benzene, 6300 mg/kg naphthalene & 500 mg/kg toluene/ethylbenzene

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) lcrawford@xdd-llc.com
☐ HARD COPY REQUIRED ☐ FAX (FAX#)_____ ☐ OTHER (specify)_____

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 4 °C

CUSTODY RECORD
QSD-01 Revision 12/23/10

	Date	Time		Date	Time
Relinquished by Sampler:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by Laboratory: Way Bill#:	2/2/16	17:23

Absolute Resource associates
124 Heritage Avenue #10
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

35596

Company Name: XDD Environmental

Company Address: 22 Marin Way, Unit 3, Stratham, NH 03885

Report To: Laurel Crawford (lcrawford@xdd-llc.com)

Phone #: 603-778-1100

Invoice To: AP@xdd-llc.com

Project Name: 13th Street Plaza

Project #: 15028

Project Location: NH MA ME VT CO Other

Protocol: RCRA MCP SDWA NHDES NPDES OTHER

Reporting Limits: QAPP EPA DW GW-1 Other S-1

Quote #____ ☐ NH GREE/ODD Fund Pricing

PO # 3862

ANALYSIS REQUEST

☒ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT ☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List: ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint ☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1 ☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB ☐ O&G 1664 ☐ Mineral O&G SM5520F ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity ☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Total Metals-List: ☐ Dissolved Metals-List: ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria M/PN ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitability/FP ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticides Subcontract: ☐ TOC ☐ Grain Size ☐ TCLP Herbicides Grab (G) or Composite (C)

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	SOLID	OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER	VOC 8260	Grab (G) or Composite (C)
Water -17 35596-09	Low Spike Control	1	X	X							ICE	2-1-16	17:30	BC	X	
-10	Low Spike Control Dup	1		X							ICE	2-1-16	17:30	BC	X	
39 -18 -11	High Spike Control	1	X	X							ICE	2-1-16	17:30	BC	X	
-12	High Spike Control Dup	1		X							ICE	2-1-16	17:30	BC	X	

Use this Chain per Karen O. 2/2/16

TAT REQUESTED
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☒
*Date Needed _____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS 1. Samples are not preserved.
2. Please decant aqueous portion from sample and combine water from duplicate samples for analysis. Analyze soils for all samples
3. Soil samples indicated as "High Spike" contain up to 200 mg/kg benzene, 6300 mg/kg naphthalene & 500 mg/kg toluene/ethylbenzene

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) lcrawford@xdd-llc.com
☐ HARD COPY REQUIRED ☐ FAX (FAX#)_____ ☐ OTHER (specify)_____

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 4 °C

CUSTODY RECORD
QSD-01 Revision 12/23/10

Relinquished by Sampler:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory: Way Bill#:	Date 2/2/16	Time 12:23