REPORT

Source Area 11
2017-2019 Groundwater Report

Southeast Rockford Groundwater
Contamination Superfund Site
Rockford, Illinois

Illinois Environmental
Protection Agency

April 2020

CDM Smith

Table of Contents

Section 1 Introduction 1-1
1.1 Area 11 Background Information 1-1

Section 2 Field and Analytical Activities 2-1
2.1 Monitoring Well Repair and Installation 2-1
2.2 Groundwater Elevations 2-2
2.3 Sampling Methods 2-2
2.4 Analytical Methods 2-3
2.5 Data Evaluation and Usability 2-4

Section 3 Results 3-1
3.1 Hydraulic Results 3-1
3.2 Laboratory Analytical Results 3-1
3.2.1 2017 Groundwater Sampling Event VOCs Exceeding RGs 3-2
3.2.2 2018 Groundwater Sampling Event VOCs Exceeding RGs 3-2
3.2.3 First Semiannual 2019 Groundwater Sampling Event VOCs Exceeding RGs 3-2
3.2.4 Second Semiannual 2019 Groundwater Sampling Event VOCs Exceeding RGs 3-2
3.2.5 Comprehensive Compounds Exceeding RGs 3-2

Section 4 Conclusions 4-1

Appendices

Appendix A – Groundwater Sampling Sheets
Appendix B – Data Validation Reports and Data Packages

List of Figures

Figure 1. Area Map
Figure 3-23. Area 11 Soil Boring and Surface Soil Sample Locations from Southeast Rockford Source Control Operable Unit Remedial Investigation Report, dated July 25, 2000
Figure 2. Area 11 Monitoring Well Locations
Figure 3. Area 11 First Semiannual 2019 Groundwater Potentiometric Surface Map
Figure 4. Area 11 Second Semiannual 2019 Groundwater Potentiometric Surface Map

List of Tables

Table 1. 2017-2019 Groundwater Sampling Dates
Table 2. Source Area 11 Groundwater Monitoring Well Details
Table 3. 2019 Observed Groundwater Elevations

Table 4. 2017-2019 Final Stabilized Field Parameter Readings for Monitoring Well Purging
Table 5. Compounds Detected 2017-2019
Table 6. Comprehensive Compounds Detected 2011-2019

Section 1
Introduction

CDM Smith Inc. (CDM Smith) has prepared this groundwater monitoring report for the Illinois Environmental Protection Agency (Illinois EPA) to document the long-term remedial action (LTRA) monitoring of groundwater quality at Source Area 11 (Area 11) of the Southeast Rockford Groundwater Contamination Superfund Site, located in Rockford, Winnebago County, Illinois (**Figure 1**).

The groundwater monitoring was conducted in accordance with the Quality Assurance Project Plan (QAPP) Addendum and Sampling and Analysis Plan (SAP) for Area 11 Long Term Remedial Action Monitoring dated March 19, 2014 and updated through letter format addenda dated May 15 and November 4, 2019.

The report focuses on the methods and procedures used during the 2017 to 2019 monitoring events, presents the data for the groundwater elevation measurements and analytical results, and summarizes information from monitoring events conducted from 2011 to 2016. This report provides a discussion of the current contaminant migration scenario and updated conceptual site model.

1.1 Area 11 Background Information

Area 11 is located on the northeast corner of Harrison Avenue and Eleventh Street in Rockford, Illinois. The Site consists of mixed greenspace and industrial property with Accurate Metals – Illinois (AMI) facility (formerly Rohr Manufacturing and Rockwell Graphics Systems) to the north and greenspace owned by the City of Rockford (formerly Villa Di Roma restaurant and Rockford Varnish) along the southern end of the property. The greenspace portion was purchased by the City of Rockford for use as a storage and laydown area during reconstruction of Harrison Avenue that occurred between 2016 and early 2018.

Potential contaminant sources include eight aboveground storage tanks (AST) that were located east of the former Rockford Varnish facility, leaking tanks, above ground pipes, and a bunker reportedly used by Rockford Varnish located near a former railroad spur. The ASTs were removed sometime between July 2003 and April 2005 based on Google Earth Pro historical imagery. The specific chemicals stored in individual tanks are not known. **Figure 3-23** from the "Final Remedial Investigation Report for the Southeast Rockford Source Control Operable Unit" dated July 25, 2000, shows historical site features. Following the City's purchase of the property in about 2014, all asphalt, and above ground and some shallow subsurface structures were removed prior to use during the Harrison Avenue construction that started in 2016. Some concrete foundation walls in the vicinity of the former buildings and ASTs are known to remain and it is generally believed that most other subsurface structures remain.

The geologic stratigraphy at Area 11 is fine- to medium-grained sand down to about 30 feet below ground surface (bgs) followed by medium- to coarse-grained sand with gravel down to

about 75 feet bgs. Below this is a silt and clay layer believed to be around 10 to 15 feet thick. The depth to groundwater is approximately 30 feet bgs and varies seasonally.

Groundwater in the unconsolidated material at Area 11 enters the eastern edge of the site flowing in a northwesterly direction before eventually turning west and then west-southwest as it exits the site's western boundary. Further downgradient, flow directly to the southwest is observed. This southwest flow has also been documented at Area 9/10. This gradual shift in groundwater flow from the northwest to the southwest in the vicinity of Area 11 is responsible for the "banana" shape of the historic groundwater contaminant plume documented by CDM Smith during the remedial investigation phases and is critical to understanding contaminant migration patterns in groundwater at Area 11.

In accordance with the Source Control Operable Unit Record of Decision (ROD) dated June 11, 2002, the Area 11 remedy selected for contaminated soil is soil vapor extraction (SVE) and the remedy for leachate (i.e., shallow, contaminated groundwater) is no action, with groundwater monitoring and institutional controls. The ROD did not propose a remedial alternative for the treatment of leachate on-site because modeling indicated that groundwater would meet standards by the time it exited the source area. However, the ROD indicates that an air sparging component can be added to the remediation system if an improvement in groundwater quality is not observed.

Contaminants of concern (COC) listed in the ROD include benzene, ethylbenzene, methylene chloride, toluene, trichloroethene, and xylenes. However, based on the magnitude of the remediation goal (RG) exceedances in groundwater samples collected since 2008, ethylbenzene, toluene, and xylenes (ETX) are generally considered to be the primary COCs.

Three rounds of pre-design investigation activities were conducted between 2007 and 2018. One common objective has been to identify and characterize the source material locations in the vadose zone (i.e., where waste material was deposited) that are the targets of the SVE soil component remedy. However, the precise locations of the vadose contamination have not been located for various reasons including site access issues, buried debris, and the assumed small footprints of the source material. The number of individual sources present at Area 11 is not known but is believed that at least several exist based on groundwater results. The Phase II Pre-Design Technical Memorandum dated September 10, 2013 contains a comprehensive discussion of the nature and extent of groundwater contamination and possible source locations at Area 11.

Pre-design objectives that were successfully achieved included defining the extent of groundwater contamination at and downgradient of Area 11 for the leachate component remedy. As part of the pre-design activities, quarterly groundwater sampling was conducted, with several interruptions from 2011 through 2013, before changing to semiannual sampling in August 2014 for the start of the leachate component LTRA.

However, these events have resulted in the soil component of the selected remedy, the purpose of which is removing the source of groundwater contamination, remaining in the remedial design (RD) phase while the leachate component has progressed into LTRA.

From 2015 through 2018, regular, continuous semiannual monitoring was not possible due to various factors. In 2015, only one round of groundwater sampling was performed due to contract issues and two sampling events were missed during 2017 and 2018 because of the Harrison Avenue road construction. Regular semiannual sampling resumed in late 2018 following completion of the Harrison Avenue construction. In addition, a previously recommended monitoring well, MW-7, was installed in October 2018 at a location west and immediately downgradient of Area 11 after the Harrison Avenue road construction was completed.

Section 2

Field and Analytical Activities

The current groundwater monitoring network includes 12 monitoring wells and is shown in **Figure 2**. Depth to groundwater measurements and groundwater samples are collected from eight monitoring wells and depth to groundwater measurements only are collected from four monitoring wells. **Table 1** provides a summary of the groundwater monitoring sampling dates and wells sampled for the 2017-2019 events. Semiannual events that were not conducted include the second round in 2017 and the first round in 2018 due to construction.

2.1 Monitoring Well Repair and Installation

During the Harrison Avenue construction project, most of the Area 11 monitoring wells were damaged to some extent. The monitoring wells that were damaged during the construction activities include MW-2, MW-3, MW-4A, MW-4B, MW-5, MW-6 and MW-129. These wells were repaired by the City of Rockford's construction contractor by September 2018. In general, repairs included redeveloping wells to remove debris, replacing damaged flush-mount vaults, and fixing damaged risers.

New monitoring well MW-7 was installed on October 29, 2018 at a location west, and hydrogeologically downgradient of MW-2, just on the other side of 11th Street as shown in **Figure 2**. Installation of a well at this location has been a proposed point of compliance well since the ROD, but various issues including restricted utility clearance and uncertain property ownership had prevented its installation. Following completion of the Harrison Avenue construction, it was possible to install the well.

Monitoring well MW-7 was installed at approximately the same location as pre-design study membrane interface probe (MIP) boring 37, and the MW-7 screened interval is based on the MIP-37 results. The well location was selected to provide coverage immediately downgradient of Area 11. Drilling and well installation activities were performed by Earth Solutions, Inc., of St. Charles, Illinois using a hollow-stem drill rig. Because of the numerous subsurface points amounts previously advanced by CDM Smith at Area 11 and the relatively homogenous geostratigraphy, no soil samples were collected during advancement. However, solvent odors were noticed in the drill cuttings brought up from the vicinity of the water table.

The monitoring well was constructed with 2-inch diameter, schedule 40 PVC casing and slotted screened sections. The well screens consist of 10-foot sections of 0.010-inch slotted PVC set from 35 to 45 feet bgs. The filter pack used to fill the annular space around the well screen was silt-free silica #40 sand. The filter pack sand was placed from the bottom of the borehole to approximately two feet above the top of the screen interval. After placement of the filter pack, an annular seal was constructed using hydrated bentonite chips with a minimum thickness of two feet. A bentonite grout was then placed up to a depth of one foot below ground surface. The remaining one foot was filled with concrete into which a flush-mount well casing was set. On the following day, the monitoring well was developed by alternating surging and purging the well until the

water was clear. The groundwater was monitored using a Horiba U-52 water quality meter during purging.

An updated survey of all monitoring wells in the groundwater monitoring network was performed in December 2019. **Table 2** provides the updated monitoring well details.

2.2 Groundwater Elevations

Depth to groundwater measurements were collected manually from each well in a single round on the first day of each sampling event. An electronic water level indicator was used and decontaminated before and after each use. Potentiometric surface maps were prepared from groundwater elevation data collected from all 12 monitoring points during both semiannual groundwater sampling events in 2019. The groundwater elevation data used to compile these maps is provided in **Table 3**. Because of construction-related well damage causing uncertainty about measurement accuracy, potentiometric surface maps were not generated for the 2017 and 2018 events.

2.3 Sampling Methods

The Area 11 monitoring wells were each purged using a submersible pump and pump controller capable of operating at low-flow purging rates. All wells were purged and sampled in general accordance with the SAP.

For all wells sampled, field measurements of pH, temperature, specific conductance, dissolved oxygen (DO), turbidity, and oxidation-reduction potential (ORP) were monitored with a multi-probe water quality meter with flow-through cell and recorded to identify the point stabilization was observed during purging. In some cases, water quality meter malfunctions prevented the collection of some readings. Parameter readings were recorded at five-minute intervals and purging continued until field parameters were observed to be within stable range (as provided below) for three consecutive readings.

- pH: ±0.25 standard units
- Dissolved oxygen: ±10 percent
- Specific conductance: ±50 mS/cm
- Turbidity: less than 5 NTUs or ±10 percent
- Temperature: ±5 °C
- ORP potential: ±10 mV

Final readings taken prior to sampling are provided in **Table 4** and original data sheets listing all readings recorded during purging are provided in **Appendix A**.

Quality control samples collected for each of the groundwater sampling events included one field duplicate per 10 or fewer investigative samples, one field blank per 10 or fewer investigative samples collected using non-dedicated equipment, one trip blank for each cooler shipped

containing aqueous samples for volatile organic compound (VOC) and 1,4-dioxane analysis, and one matrix spike/matrix spike duplicate (MS/MSD) per 20 or fewer samples. The compound 1,4-dioxane was added to the list of analytical parameters at the request of the U.S. Environmental Protection Agency (U.S. EPA) starting with the second 2019 semiannual sampling event.

Field instruments were calibrated daily to the appropriate standards in accordance with the SAP. New or dedicated sample tubing was used for each discrete sampling location. The groundwater samples for laboratory analysis were collected directly from the pump discharge tubing into pre-preserved sample containers. Sample containers for analysis of VOCs and 1,4-dioxane were sourced from a commercial vendor. Sample bottles for the attenuation parameters were provided by the subcontractor laboratory, STAT Analysis (STAT) of Chicago, Illinois. The field samples collected for dissolved ferrous iron were collected through a 0.45-micron inline filter and analyzed in the field with a HACH field test kit.

2.4 Analytical Methods

Groundwater samples for 2017, 2018, and the first event of 2019 were analyzed through the U.S. EPA Contract Laboratory Program (CLP) for Target Compound List (TCL) trace or low/medium volatile organics under SOM02.4. These volatile organic analytical results were subsequently validated by the U.S. EPA Region 5 Environmental Services Assistance Team (ESAT) contractor. The Stage 3 validation/verification included a review of holding times; instrument tuning and performance; internal standards; initial and continuing calibration; surrogate recoveries; laboratory, field, and trip blanks; field duplicates; MS/MSD; laboratory control samples; and compound identification, quantification, and reported detection limits.

Samples collected during the second 2019 semiannual event were analyzed for VOCs and 1,4-dioxane by the U.S. EPA Region 5 Analytical Services Branch (ASB) laboratory. Volatile organic compounds were analyzed in accordance with ASB standard operating procedure (SOP) MS023, Version 6 (Based on EPA Method SW-846:8260C) and Pen and Ink Changes #18916.

The analytical methods for VOCs used by CLP and ASB are comparable as both methods use purge and trap technique for extraction and gas chromatograph/mass spectrometer for analysis. The method reporting limits (RL) achieved by both laboratories are below the project action limits.

Analysis of 1,4-dioxane was performed in accordance with ASB SOP MS035 for low-level 1,4-dioxane. CDM Smith data validation staff followed the National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (SOM02.4), as applicable, and the ASB analytical methods to perform Stage 3 validation/verification on the VOC and 1,4-dioxane results.

The compound 1,4-dioxane was added to the parameter list starting with the November 2019 sampling event at the request of U.S. EPA. This compound had previously been included in the TCL VOC list for CLP for the 2011 and 2012 events, but it produced unreliable results that were typically rejected as unusable. 1,4-Dioxane was not analyzed at Area 11 from 2013 through the first event of 2019.

Groundwater samples were also submitted to the subcontractor laboratory, STAT, for analysis of attenuation parameters methane, sulfate, nitrate, and alkalinity. Validation/verification of the attenuation data generated by the subcontractor laboratory was performed by CDM Smith and

followed the NFGs for Inorganic Superfund Data Review, as applicable, and the individual analytical methods.

Field analysis of dissolved ferrous iron was performed in the field in accordance with HACH Method 8146.

2.5 Data Evaluation and Usability

A data evaluation/validation review was conducted on the analytical data for the 2017 through 2019 groundwater monitoring events. QA objectives for data are expressed in terms of measurement performance data quality indicators (DQI), precision, accuracy, representativeness, comparability, completeness, and sensitivity (PARCCS). DQIs provide a mechanism for ongoing QC and evaluating and measuring data quality throughout the project. The measurement performance criteria are outlined in the QAPP/SAP and letter addendum updates dated May 15 and November 4, 2019.

A review of the collected data is necessary to identify if the measurement performance criteria established in the QAPP have been met. In general, the following data measurement objectives were considered:

- Achievement of analytical method and reporting limit requirements
- Adherence to and achievement of appropriate laboratory analytical QC requirements
- Achievement of required measurement performance criteria for data quality indicators (PARCCS)
- Adherence to sampling and sample handling procedures
- Adherence to the sampling design and deviations documented on field change notifications

Data verification, data validation, and data assessment were used to verify adherence to the QAPP procedures and requirements and achievement of the measurement performance criteria of the PARCCS parameters. These assessments were used to reconcile the planned objectives detailed in the QAPP against the investigation results. The outputs serve to verify that the collected data are of sufficient quality to support their intended use.

The detailed data evaluation/validation discussion is provided as a preface to the laboratory data reports in **Appendix B**. In summary, all the validated and reviewed data are suitable for their intended use for groundwater monitoring. No data were rejected for the 2017 through 2019 sampling events. Sample results that were qualified as estimated are usable for project decisions. . The laboratory and validation qualifiers are provided in the data tables referenced in **Section 3**.

Section 3
Results

This section presents the results of the semiannual groundwater sampling events in 2017, 2018, and 2019. The Area 11 monitoring wells include one well upgradient (MW-1), four wells within Area 11 (MW-2, MW-3, MW-4A, and MW-4B) and three wells downgradient of Area 11 (MW-5, MW-6, and MW-7). Downgradient well MW-7 was installed in 2018. Two of the wells, MW-4A and MW-4B, within Area 11 are adjacent with MW-4A screened in the shallow portion of the aquifer and MW-4B well screened 45 feet lower to monitor the vertical extent of the groundwater contamination within the source area. Because the primary COCs are less dense than water, MW-4B also provides an indication of diffused site-wide contamination.

3.1 Hydraulic Results

Groundwater elevation measurements were collected prior to the start of each semiannual sampling event; however, as discussed in **Section 2.1**, potentiometric surface maps were generated using only the 2019 water level data. The dates of data collection and the water elevations measured for the semiannual 2019 groundwater monitoring events are presented in **Table 3**. Potentiometric surface maps are presented for the two 2019 semiannual events in **Figures 3** and **4.** Groundwater gradients are estimated across the site using elevation data from MW-1 as the upgradient location and MW-6 as the downgradient location.

The first 2019 semiannual groundwater elevations were measured on May 29, 2019. The groundwater flow direction measured is predominantly to the west (**Figure 3**). The unusual deflection in the groundwater contour near MW-4A may be the result of measurement error as the top of casing measurement point at this well cannot be observed directly because of its depth below the flush-mount rim. The first 2019 semiannual groundwater gradient was approximately 0.001290 ft/ft which is consistent with the historical average groundwater gradients.

The second 2019 semiannual groundwater elevations were measured on November 13, 2019. The groundwater flow direction measured is predominantly to the west (**Figure 4**). The second 2019 semiannual groundwater gradient was approximately 0.001418 ft/ft which is consistent with the historical average groundwater gradients. Overall, the groundwater gradients across Area 11 are relatively flat.

3.2 Laboratory Analytical Results

Data validation was performed by the U.S. EPA ESAT contractor and CDM Smith. Overall, the validation determined that the data are useable with qualifications. Two samples from the 2017 sampling event, two samples and a field duplicate from the 2018 sampling event and the second 2019 event, and three samples from the first semiannual 2019 sampling event exceeded the calibration range for the initial run and required a second run at a dilution. The impacted parameters are qualified with a "D" indicating that the value reported is from the diluted sample run. **Table 5** presents the data for detected VOCs for the 2017, 2018, and 2019 sampling events. Data validation reports and raw data forms are provided in **Appendix B**.

A recurring issue is that high concentrations of ETX compounds, but typically toluene, in samples collected from MW-2 and MW-4A, and to a lesser extent samples collected from MW-3, routinely require high levels of dilution resulting in elevated detection limits for all other compounds, that are many times greater than their respective RG. Because of this "masking" effect, it is not possible to determine if other compounds are actually present above their RGs in the samples.

The monitoring well sample concentrations for VOCs were compared to the RGs established in the ROD. Sample concentrations for 1,4-dioxane and other compounds not listed in the ROD were compared to the Groundwater Quality Standards for Class I: Potable Resource Groundwater provided in Title 35 of the Illinois Administrative Code (35 IAC), Section 620.410.

3.2.1 2017 Groundwater Sampling Event VOCs Exceeding RGs

During the 2017 groundwater sampling event, six Area 11 wells were sampled. For this event MW-5 had been damaged and was not available for sampling and MW-7 had not been installed. Ethylbenzene, toluene and xylenes were detected over their RGs in MW-2. Well MW-6 contained bromodichloromethane over the RG. Well MW-4A contained toluene that exceeds the RG (**Table 6**).

3.2.2 2018 Groundwater Sampling Event VOCs Exceeding RGs

All eight Area 11 monitoring wells were sampled during this sampling event. Cis-1,2-dichloroethene, ethylbenzene, toluene, and xylenes were detected over their RGs in MW-2. The sample from MW-4A and its field duplicate contained toluene that exceed the RG. The sample and field duplicate from MW-7 contained ethyl benzene and xylenes that exceed their RGs (**Table 6**).

3.2.3 First Semiannual 2019 Groundwater Sampling Event VOCs Exceeding RGs

All eight Area 11 monitoring wells were sampled during the first semiannual 2019 sampling event. Xylenes were detected over the RG in MW-3 and benzene exceeds the RG in MW-6. Ethylbenzene, toluene, and xylenes were detected over their RGs in MW-2, and MW-4A contained toluene that exceed the RG. Well MW-5 contained bromodichloromethane over the RG. The sample and field duplicate from MW-7 contained ethylbenzene that exceeds the RG (**Table 6**).

3.2.4 Second Semiannual 2019 Groundwater Sampling Event VOCs Exceeding RGs

All eight Area 11 monitoring wells were sampled during the second semiannual 2019 sampling event. This sampling round is the first round that produced reliable results for 1,4-dioxane. 1,4-dioxane was detected over the RG in MW-1, MW-3 and MW-4B. Ethylbenzene, toluene, xylenes, and styrene were detected over their RGs in MW-2. MW-4A contained toluene that exceeded the RG. The MW-7 sample and field duplicate contained ethylbenzene that exceeds the RG. (**Table 6**).

3.2.5 Comprehensive Compounds Exceeding RGs

The concentrations of different contaminants in groundwater have varied since 2011 in any given monitoring well as shown in **Table 6**. The groundwater contamination in Area 11 is primarily ETX compounds with toluene being the most conspicuous because of the magnitude of its RG exceedances. Historically, several chlorinated VOCs have been detected over their RGs in samples

collected from Area 11. Because monitoring well samples have been reliably analyzed for 1,4-dioxane only once, no discussion of its presence in groundwater samples is included in this section.

Monitoring well MW-1 is considered the upgradient, background well for Area 11. Samples collected from this well during five events from 2011 to 2012 contained 1,1,1-trichloroethane (TCA), 1,1-dichoroethene (DCE), and trichloroethene (TCE) at concentrations just above their respective RGs. Starting in December 2012, concentrations of these compounds decreased rapidly to low double- and single-digit levels that have remained consistently below RGs. It is believed that the decrease in concentrations is at least partially attributable to the Area 4 hydraulic containment leachate component remedy that operated from December 2009 to October 2018. See **Figure 1** for the location Area 4 relative to Area 11.

Continuing in a generally hydrogeologic downgradient order, the well locations with the highest concentrations of contaminants continue to be MW-4A and MW-2. These wells are primarily contaminated with toluene and concentrations have remained above the RG since 2011. Concentrations of ethylbenzene and xylenes in MW-2 have also remained at levels over their RGs despite decreasing concentrations since 2016.

Toluene concentrations in samples collected from MW-4A through 2017 have fluctuated from 100 times the RG of 1,000 micrograms per liter (µg/L) to a maximum 230 times the RG in June 2013. The highest concentration of toluene in any groundwater sample collected at Area 11 was collected in January 2008 from the vicinity of MW-4A, prior to its installation, with a direct-push, 4-foot screen interval sampler. The concentration of toluene in this sample was 520,000 µg/L, which is the laboratory-derived solubility limit for toluene.

In 2017 toluene concentrations in MW-4A dropped almost by half from 150 times the RG in April 2016, to 79 times the RG in March 2017, and down to 39 times the RG in November 2018. (The November 2018 sample was the duplicate of a sample that contained toluene at 49 times the RG.) Since that low concentration, toluene concentrations have increased slightly to 64 times the RG in November 2019. During roughly the same time period, both ethylbenzene and xylenes concentrations have decreased from their initial, higher levels in 2011 and 2012. The xylenes concentrations in samples collected from MW-4A have been below the RG of 10,000 µg/L since 2012 and the ethylbenzene concentrations have been below the RG of 700 µg/L since 2013. However, as previously mentioned, the detection limits for ethylbenzene and xylenes in many of these samples are higher than the respective RGs because of dilutions required for analysis of the high concentrations of toluene in the samples.

Samples collected from MW-4B are similar to those collected from background well MW-1 with low double- and single-digit detections of several chlorinated compounds considered to be generally representative of site-wide groundwater quality. The steady decrease in TCA concentrations since 2011 is at least partially attributable to the Area 4 leachate component remedy.

Samples collected from MW-2 contain higher concentrations of ethylbenzene and xylenes resulting in all three ETX compounds detected consistently above RGs from 2011 to 2019. In

addition, benzene was detected once in a sample collected from MW-2 in June 2013, at a concentration just over its RG of 5 µg/L.

The highest ethylbenzene concentration in MW-2 was 10 times the RG in May 2015, the highest toluene concentration was 220 times the RG in December 2012 and again March 2017, and the highest xylenes concentration was 2.6 times the RG in May 2015. Focusing again on toluene, concentrations from 2012 to 2018 fluctuated from the previously mentioned highs of 220 times the RG down to 110 times the RG in May 2015. Similar to toluene concentrations in samples collected from MW-4A, concentrations of toluene in MW-2 suddenly dropped by almost half from 160 times the RG in November 2018 to 88 times the RG in May 2019 followed by 22.5 times the RG in November 2019. However, the substantial toluene decrease in MW-2 occurred about two years after the decrease in MW-4A, and it remains to be seen if the toluene concentration in MW-2 will slowly climb as it did in MW-4A.

MW-3, located just south of MW-2, has not shown significant ETX contamination since September 2012; however, the May 2019 sampling event showed a spike in xylenes concentration over the RG. Generally speaking, MW-3 is not believed to be directly downgradient of any major Area 11 source(s).

The newest downgradient monitoring well installed in 2018, MW-7, is directly west and downgradient of MW-2 (**Figure 2**). Only three rounds of samples have been collected from this well with ethylbenzene above its RG for all three sample events ranging from 9.5 times the RG in November 2018 down to two times the RG a year later in November 2019. Xylenes were detected above the RG for the first event and declined to levels approximately half the concentration of the RG during both 2019 sampling events. Toluene was detected below the RG in November 2018, but not detected a year later, despite being a relatively short distance downgradient from MW-2 with its high concentrations of toluene.

Monitoring wells MW-5 and MW-6 are located downgradient of Area 11. Samples collected from these wells have contained a combination of site-wide chlorinated compounds and ETX compounds at low double- and single-digit concentrations. The only compounds detected above RGs in either well are bromodichloromethane and benzene. Bromodichloromethane has been detected above the RG several times in both wells. Bromodichloromethane is a trihalomethane generally referred to as a disinfection by-product resulting from chlorine treatment of drinking water that has been routinely detected above its RG in the Area 4 background monitoring well. Its detection is not considered to be attributable to either source area. Benzene has been detected once in samples collected from MW-5 and a number of times in MW-6, including once at a concentration above its RG of 5 µg/L in May 2019. Benzene is not known to be related to Area 11, but the possibility exists that it is.

Section 4
Conclusions

The primary conclusions presented in previous Area 11 documents, prior to the installation and sampling of monitoring well MW-7, were that contaminant concentrations attenuate rapidly with distance resulting in no contaminants *known* to be related to Area 11 exceeding RGs downgradient of Area 11. However, concentrations at Area 11 prior to 2017 fluctuate up and down, generally not decreasing over time. Further, with the continued presence of unlocated source material at Area 11, it was anticipated that that situation would continue.

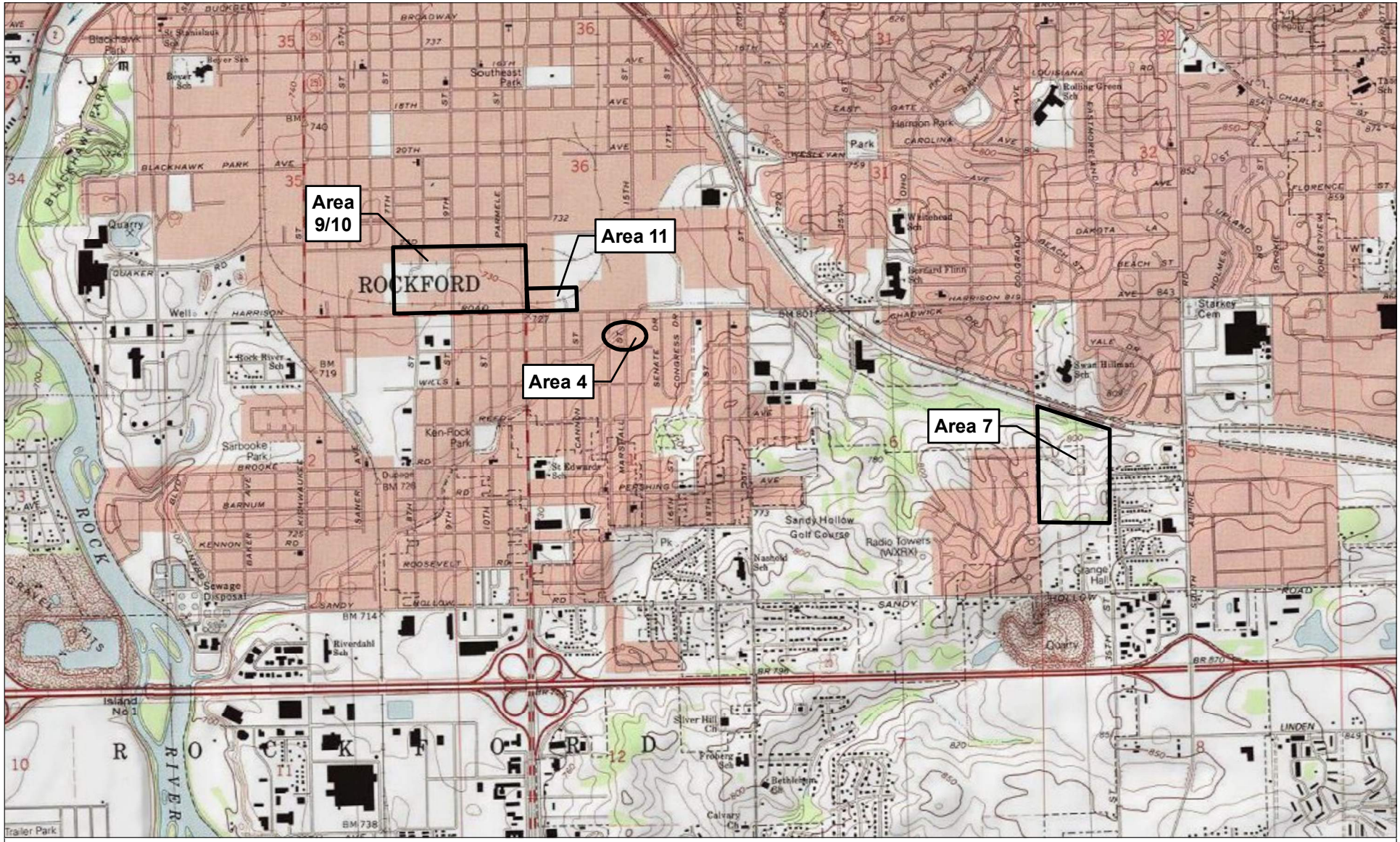
An evaluation of data collected over the past two years presents a different situation. When MW-7 analytical results from the past year are considered, it is no longer correct to state that Area 11-related contaminants are not exceeding RGs downgradient of the source area. However, it is still true that contaminant concentrations are attenuating rapidly with distance based on a comparison of concentrations in samples collected from MW-2 and MW-7.

But more importantly, contaminant concentrations in samples collected from MW-4A and MW-2 have decreased significantly in a manner not previously observed at Area 11. It is believed that the cause of the sudden reduction in toluene concentrations in MW-4A between April 2016 and March 2017 is related to the removal of all asphalt surfaces from the site in 2016. Subsequently, about two years later, this groundwater with much lower toluene concentrations had migrated downgradient to MW-2. The exact attenuation processes responsible for significant decreases in concentrations is not known but will be evaluated.

Although it is unlikely that concentrations of all three ETX compounds will fall below their RGs in the near future, the basic conceptual site model (CSM) of Area 11 is quite different now that its ground surface is undeveloped greenspace with no barriers to infiltration by precipitation or exchanges between the atmosphere and the ground.

Nevertheless, CDM Smith recommends that a minimum of two years of quarterly groundwater monitoring be conducted to fully evaluate the new CSM at the site. This reevaluation will provide input to refine the remedial decisions for both leachate and soils within Area 11. This will also allow for additional monitoring of 1,4-dioxane. All wells sampled for the November 2019 event had detections of 1,4-dioxane. Three wells, MW-1, MW-3 and MW-4B had detections above the RG and MW-5 had a detection just below the RG. Future monitoring will provide more complete information regarding trends for this contaminant.

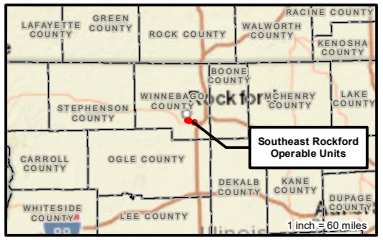
Figures



LEGEND

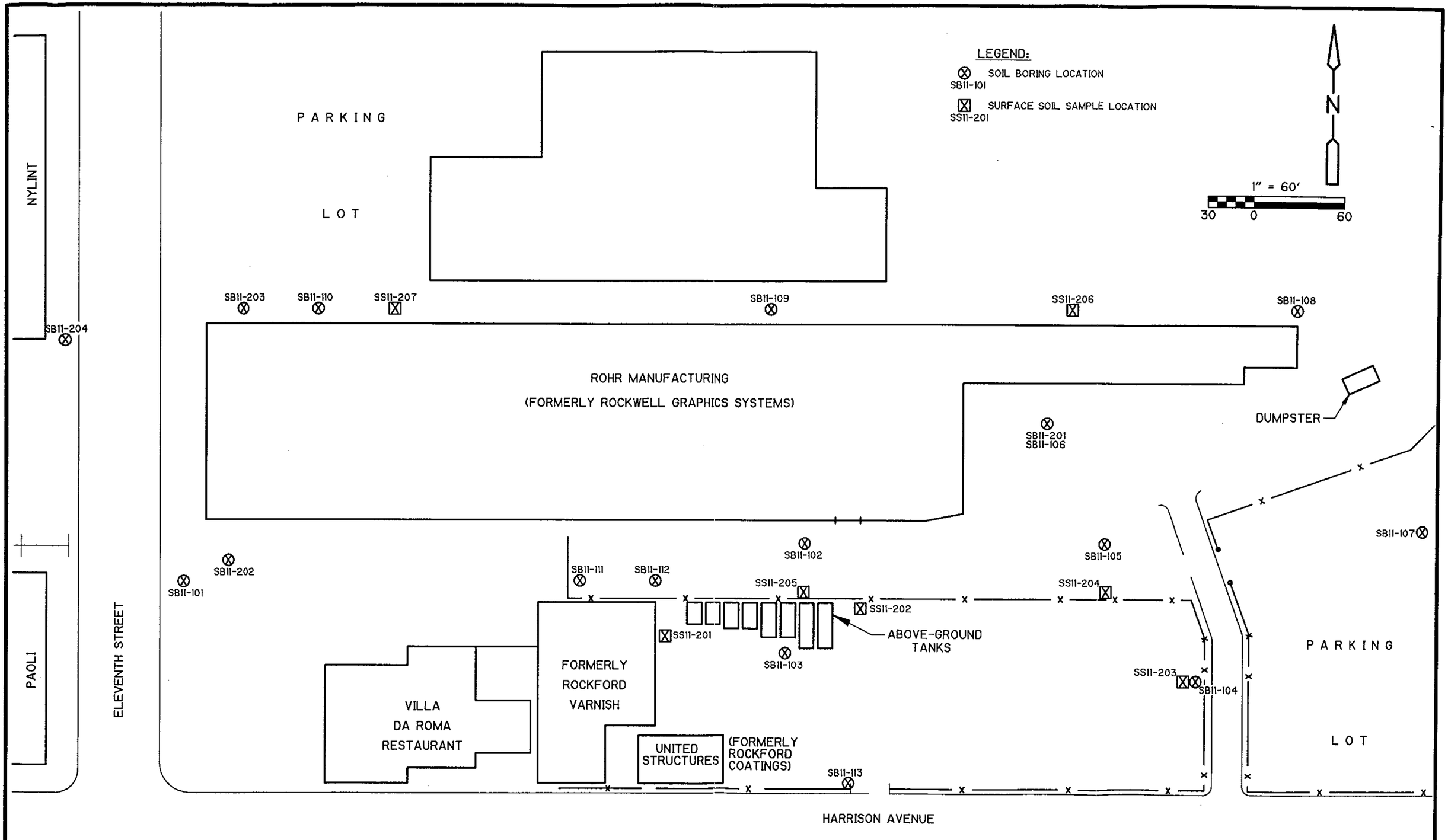
Source Area

Service Layer Credits:
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.



CDM Smith

FIGURE 1 - AREA MAP
SOUTHEAST ROCKFORD GROUNDWATER CONTAMINATION SUPERFUND SITE



CDM
environmental engineers, scientists, planners, & management consultants

SOUTHEAST ROCKFORD SOURCE CONTROL OPERABLE UNIT

AREA 11 SOIL BORING AND SURFACE SOIL SAMPLE LOCATIONS

Figure No. 3-23

S:\1681\1110\RI_FINAL\AREA11\ 11_sbloc 07/19/00 10:05:13 2:16:00 Sellgarb

LEGEND

- Groundwater Sampling Location
- Water Level Measurement Location

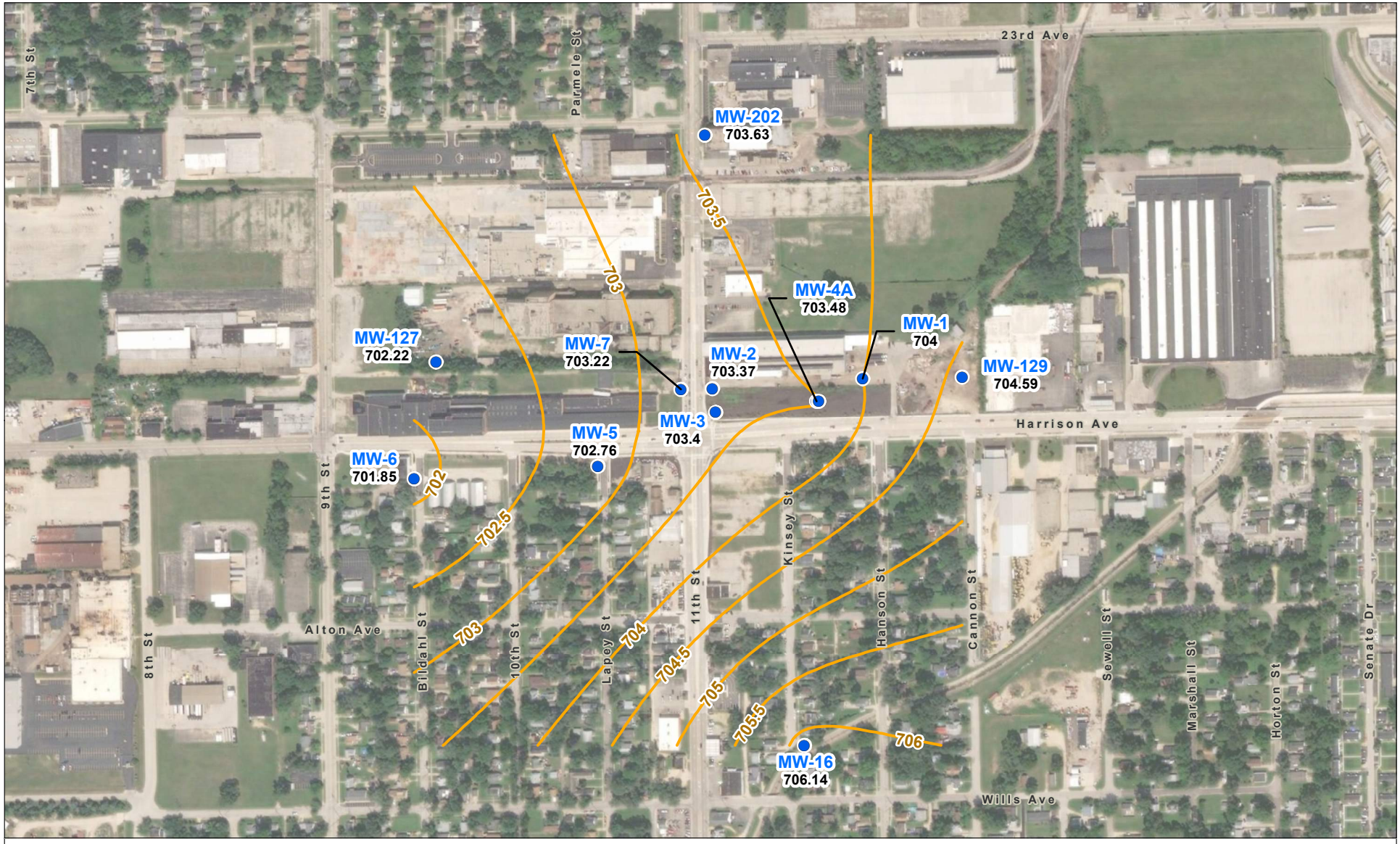
Service Layer Credits:
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

N

0 250 500 Feet

CDM Smith

FIGURE 2 - MONITORING WELL LOCATIONS
AREA 11 SOUTHEAST ROCKFORD



LEGEND

Monitoring Well Location

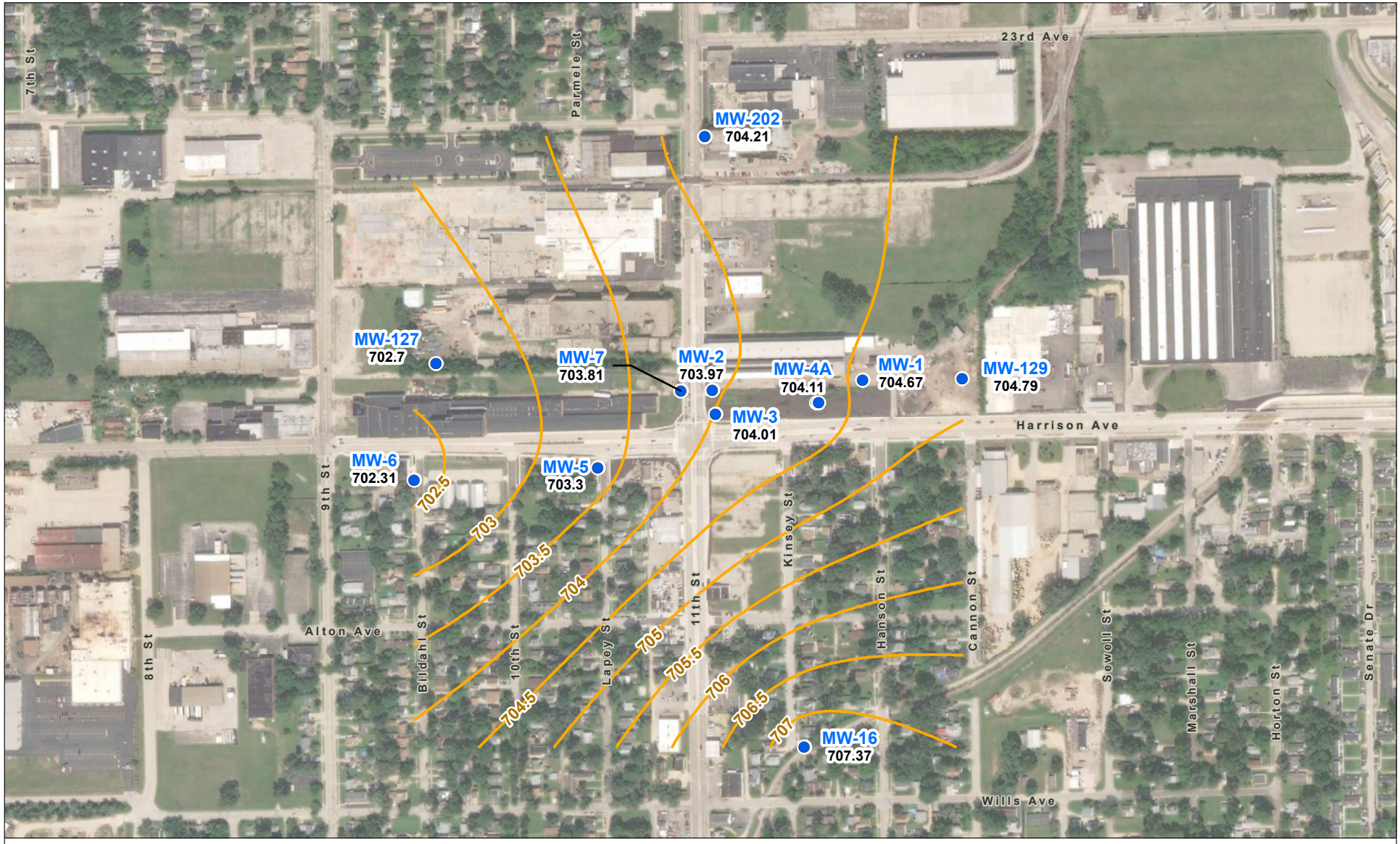
Groundwater Contour

Service Layer Credits:
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

0 250 500 Feet

CDM Smith

FIGURE 3 - GROUNDWATER POTENTIOMETRIC SURFACE MAP, MAY 2019
AREA 11 SOUTHEAST ROCKFORD



LEGEND

Monitoring Well Location

Groundwater Contour

Service Layer Credits:
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

0 250 500 Feet

CDM Smith

FIGURE 4 - GROUNDWATER POTENTIOMETRIC SURFACE MAP, NOVEMBER 2019
AREA 11 SOUTHEAST ROCKFORD

Tables

Table 1
2017-2019 Groundwater Sampling Dates
Source Area 11 2017-2019 Groundwater Sampling Report
Southeast Rockford Groundwater Contamination Superfund Site

Sampling Event	MW001	MW002	MW003	MW004A	MW004B	MW005	MW006	MW007
1st Semiannual 2017	3/9/2017	3/10/2017	3/10/2017	3/10/2017	3/10/2017	NS	3/10/2017	NA
2nd Semiannual 2017	Sampling not conducted because of Harrison Avenue construction							
1st Semiannual 2018	Sampling not conducted because of Harrison Avenue construction							
2nd Semiannual 2018	11/13/2018	11/14/2018	11/14/2018	11/15/2018	11/14/2018	11/13/2018	11/13/2018	11/14/2018
1st Semiannual 2019	5/20/2019	5/21/2019	5/21/2019	5/21/2019	5/20/2019	5/20/2019	5/20/2019	5/21/2019
2nd Semiannual 2019	11/12/2019	11/13/2019	11/13/2019	11/13/2019	11/12/2019	11/12/2019	11/12/2019	11/13/2019

Note:
NS = Not sampled because of damage caused by Harrison Avenue construction

CDM Smith

Table 2
Source Area 11 Groundwater Monitoring Well Details
Southest Rockford Groundwater Contamination Superfund Site

Well	Northing	Easting	GS EL	R EL	TOC EL	TOS EL	BOS EL
A11-MW001	2031336.332	2593548.352	731.44	731.39	731.05	691.57	681.57
A11-MW002	2031300.199	2593008.503	728.18	728.14	727.78	688.36	678.36
A11-MW003	2031215.570	2593020.031	728.55	728.50	728.11	688.96	678.96
A11-MW004A	2031254.741	2593383.283	730.08	729.99	729.66	700.12	690.12
A11-MW004B	2031254.713	2593389.903	730.39	730.33	730.50	655.31	645.31
A11-MW005	2031021.547	2592596.954	728.35	728.34	727.95	689.95	679.95
A11-MW006	2030977.013	2591937.254	727.41	727.41	727.05	686.27	676.27
A11-MW007	2031298.190	2592895.699	727.80	727.74	727.44	692.50	682.50
MW-127*	2031396.552	2592015.339	726.54	728.68	728.50	694.70	684.70
MW-129*	2031342.364	2593906.062	732.11	732.08	731.60	705.10	700.10
MW-016*	2030019.797	2593337.788	725.51	725.49	725.33	677.80	672.80
MW-202*	2032210.537	2592980.725	729.19	729.30	729.06	689.50	679.50

Notes:
GS EL = Ground surface elevation above mean sea level (amsl)
TOC EL = Top of inner casing/riser elevation amsl
TOS EL = Top of screen elevation amsl
BOS EL = Bottom of screen elevation amsl
* = Only groundwater levels were collected

CDM Smith

Table 3
2019 Observed Groundwater Elevations
Source Area 11 2017-2019 Annual Report
Southeast Rockford Groundwater Contamination Superfund Site

Well ID	Top of Casing Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)	Top of Casing Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)
	May 2019			November 2019		
MW001	731.05	27.05	704.00	731.05	26.38	704.67
MW002	727.78	24.41	703.37	727.78	23.81	703.97
MW003	728.11	24.71	703.40	728.11	24.10	704.01
MW004A	729.66	26.18	703.48	729.66	25.55	704.11
MW005	727.95	25.19	702.76	727.95	24.65	703.30
MW006	727.05	25.20	701.85	727.05	24.74	702.31
MW007	727.44	24.22	703.22	727.44	23.63	703.81
MW016	725.33	19.19	706.14	725.33	17.96	707.37
MW127	728.50	26.28	702.22	728.50	25.80	702.70
MW129	731.60	27.01	704.59	731.60	26.81	704.79
MW202	729.06	25.43	703.63	729.06	24.85	704.21

ft = feet
AMSL = above mean sea level
BTOC = below top of casing

Table 4
2017-2019 Final Stabilized Field Parameter Readings for Monitoring Well Purging
Source Area 11 2017-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	Flowrate mL/min	pH	Specific Cond. (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	ORP (mV)	Dissolved Ferrous Iron (mg/L)	Purged Min.
November 2019									
MW001	250	6.71	1.36	5.7	7.99	53.6	194	0.19	50
MW002	250	6.20	1.37	12.7	0.40	52.1	-96	1.57	60
MW003	250	6.07	1.36	3.2	0.56	53.3	-104	1.67	50
MW004A	250	6.51	1.27	7.4	0.29	52.6	-158	1.76	35
MW004B	250	6.58	1.25	16.4	4.34	45.9	189	0.39	50
MW005	250	6.57	1.47	9.0	7.71	50.3	160	0	55
MW006	250	6.33	1.22	7.9	5.25	51.7	-78	1.55	35
MW007	250	6.07	1.66	7.5	0.41	51.1	-95	1.24	35
May 2019									
MW001	250	7.13	1.21	12.9	1.11	14.39	155	N/A	55
MW002	250	7.19	1.22	41.6	0	15.02	-119	1.83	45
MW003	250	7.31	1.53	54.2	0	13.72	-134	N/A	55
MW004A	250	7.56	1.21	31.9	0	13.48	-175	2.25	45
MW004B	250	7.24	1.20	93.7	0	13.42	130	N/A	45
MW005	250	7.18	1.48	83.1	1.86	15.23	133	0.29	55
MW006	250	6.87	1.13	5.7	0	14.74	-94	3.3	30
MW007	250	6.29	1.41	109	0	14.43	-86	3.3	50

Notes: N/A = Not Available
NTU = Nephelometric Turbidity Unit
ORP = oxidation reduction potential
mL/min = milliliter per minute
mg/L = milligram per liter
mV = millivolts
mS/cm = millisiemen per centimeter
°C = degrees Celsius

CDM Smith

Table 4
2017-2019 Final Stabilized Field Parameter Readings for Monitoring Well Purging
Source Area 11 2017-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	Flowrate mL/min	pH	Specific Cond. (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	ORP (mV)	Dissolved Ferrous Iron (mg/L)	Purged Min.
November 2018									
MW001	250	6.64	0.796	5.4	0	10.92	248	0.01	25
MW002	250	6.71	0.790	27.8	0	11.11	-101	1.68	45
MW003	250	6.66	0.943	3.9	0	11.44	-121	2.48	40
MW004A	250	6.83	0.800	3.1	0	11.42	204	0.09	40
MW004B	250	6.67	0.990	3.5	0	9.58	-111	1.42	45
MW005	250	6.87	1.03	0.8	1.31	7.92	229	0.02	40
MW006	250	6.91	0.876	0.5	1.41	10.56	-76	0	50
MW007	250	6.24	0.883	8.6	0	11.57	-55	1.35	50
March 2017									
MW001	250	7.92	1.35	18.4	0	12.15	N/A	N/A	55
MW002	250	7.84	1.06	26.0	0	13.30	-108	3.30	35
MW003	250	8.13	0.22	8.1	0	11.78	-105	3.23	30
MW004A	250	7.90	1.21	9.8	0	12.89	-119	3.30	40
MW004B	250	8.20	1.15	11.3	0	11.64	143	0.02	50
MW005	250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW006	250	8.17	1.65	N/A	0	12.32	N/A	0.02	41

Notes: N/A = Not Available
NTU = Nephelometric Turbidity Unit
ORP = oxidation reduction potential
mL/min = milliliter per minute
mg/L = milligram per liter
mV = millivolts
mS/cm = millisiemen per centimeter
°C = degrees Celsius

CDM Smith

Table 5
Compounds Detected 2017-2019
Source Area 11 2017-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3Y44	E3Y45	E3YA2	E3YF1	E191105-02	E3Y50	E3YA3	E3YF7	E191105-03
	Station Location	A11-MW001	A11-MW001-D	A11-MW001	A11-MW001	A11-MW001	A11-MW002	A11-MW002	A11-MW002	A11-MW002
	Sample Date	3/9/2017	3/9/2017	11/13/2018	5/20/2019	11/12/2019	3/10/2017	11/14/2018	5/21/2019	11/13/2019
Analyte Name	RG	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL
1,1,1-Trichloroethane	200	**11**	**12**	**9.3**	**22 (D)**	**7.21**	1000 U	250 U	2500 U	200 U
1,1,2-Trichloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	1000 U	250 U	2500 U	200 U
1,1-Dichloroethene	7	**1.4**	**1.5**	**1.7**	**4.6**	2.00 U	1000 UJ	250 U	2500 U	200 U
1,2-Dichloropropane	5	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	1000 U	250 U	2500 U	200 U
1,4-Dioxane	7.7	NA	NA	NA	NA	**12.2**	NA	NA	NA	**4.42**
Benzene	5	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	1000 U	250 U	2500 U	200 U
Bromodichloromethane	0.2*	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	1000 U	250 U	2500 U	200 U
cis-1,2-Dichloroethene	70	**1.3**	**1.4**	**1.7**	**3.4**	2.00 U	1000 UJ	**170 J**	2500 U	200 U
Ethyl Benzene	700	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	**4100**	**3300**	**3700**	**4420 J**
Methylene Chloride	5	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	1000 U	250 U	2500 U	200 U
Styrene	100	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	1000 U	250 U	2500 U	**371**
Tetrachloroethene	5	**0.81**	**0.89**	**1**	**2.7**	2.00 U	1000 U	250 U	2500 U	200 U
Toluene	1000	**0.09 J**	**0.1 J**	0.5 U	0.5 U	2.00 U	**220000 J (D)**	**160000 J(D)**	**88000**	**22500 J**
Trichloroethene	5	**2.2**	**2.4**	**3.7**	**4.7**	2.00 U	1000 U	250 U	2500 U	200 U
Vinyl Chloride	2	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	1000 U	250 U	2500 U	200 U
Xylenes - Total	10000	0.5 U	**0.11 J**	0.5 U	**0.3 J+**	4.00 U	**17800**	**14300 (D)**	**14200**	**14930**

Notes:
All results in microgram per liter
Remediation goals from Record of Decision
or Class I Groundwater Standard from
35 IAC 620.410
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

Table 5
Compounds Detected 2017-2019
Source Area 11 2017-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3Y51	E3YA4	E3YF4	E191105-04	E3Y52	E3YA6	E3YA7	E3YF8	E191105-05
	Station Location	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW004A	A11-MW004A	A11-MW004A-D	A11-MW004A	A11-MW004A
	Sample Date	3/10/2017	11/14/2018	5/21/2019	11/13/2019	3/10/2017	11/14/2018	11/14/2018	5/21/2019	11/13/2019
Analyte Name	RG	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL
1,1,1-Trichloroethane	200	250 U	100 U	250 U	10.0 U	250 U	2500 U	2500 U	250 U	400 U
1,1,2-Trichloroethane	5	250 U	100 U	250 U	10.0 U	250 U	2500 U	2500 U	250 U	400 U
1,1-Dichloroethene	7	250 U	100 U	250 U	10.0 U	250 UJ	2500 UJ	2500 UJ	250 U	400 U
1,2-Dichloropropane	5	250 U	100 U	250 U	10.0 U	250 U	2500 U	2500 U	250 U	400 U
1,4-Dioxane	7.7	NA	NA	NA	**12**	NA	NA	NA	NA	**1.2**
Benzene	5	250 U	100 U	250 U	10.0 U	250 U	2500 U	2500 U	250 U	400 U
Bromodichloromethane	0.2*	250 U	100 U	250 U	10.0 U	250 U	2500 U	2500 U	250 U	400 U
cis-1,2-Dichloroethene	70	250 U	100 U	250 U	10.0 U	250 UJ	2500 UJ	2500 UJ	250 U	400 U
Ethyl Benzene	700	**450**	**130**	**160 J**	**144**	**320**	2500 U	2500 U	**440**	**455**
Methylene Chloride	5	250 U	100 U	250 U	10.0 U	250 U	2500 U	2500 U	250 U	400 U
Styrene	100	250 U	100 U	250 U	10.0 U	250 U	2500 U	2500 U	250 U	400 U
Tetrachloroethene	5	250 U	100 U	250 U	10.0 U	250 U	2500 U	2500 U	250 U	400 U
Toluene	1000	**190 J**	**54 J**	**570**	**133**	**79000 (D)**	**48000**	**39000**	**59000 (D)**	**64300**
Trichloroethene	5	250 U	100 U	250 U	10.0 U	250 U	2500 U	2500 U	250 U	400 U
Vinyl Chloride	2	250 U	100 U	250 U	10.0 U	250 U	2500 U	2500 U	250 U	400 U
Xylenes - Total	10000	**4900**	**3500**	**12000 (D)**	**2910 (D)**	**539 J**	2500 U	2500 U	**706**	800 U

Notes:
All results in microgram per liter
Remediation goals from Record of Decision
or Class I Groundwater Standard from
35 IAC 620.410
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 5
Compounds Detected 2017-2019
Source Area 11 2017-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3Y48	E3YA5	E3YF2	E191105-06	E3YA8	E3YF0	E191105-07	E3Y47	E3YA9
	Station Location	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW005	A11-MW005	A11-MW005	A11-MW006	A11-MW006
	Sample Date	3/10/2017	11/15/2018	5/20/2019	11/12/2019	11/13/2018	5/20/2019	11/12/2019	3/9/2017	11/13/2018
Analyte Name	RG	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL
1,1,1-Trichloroethane	200	**12**	**8.9**	**18**	**6.26**	**3.5**	**6.4**	**2.46**	**0.38 J**	0.5 U
1,1,2-Trichloroethane	5	0.5 U	5 U	0.5 U	2.00 U	0.5 U	0.5 U	2.00 U	0.5 U	0.5 U
1,1-Dichloroethene	7	**1.8**	5 U	**3.2**	2.00 U	0.5 UJ	**1.1**	2.00 U	0.5 U	0.5 UJ
1,2-Dichloropropane	5	0.5 U	5 U	0.5 U	2.00 U	0.5 U	0.5 U	2.00 U	0.5 U	0.5 U
1,4-Dioxane	7.7	NA	NA	NA	**13.4**	NA	NA	**7.63**	NA	NA
Benzene	5	0.5 U	5 U	0.5 U	2.00 U	0.5 U	0.5 U	2.00 U	0.5 U	**2.5**
Bromodichloromethane	0.2*	0.5 U	5 U	0.5 U	2.00 U	**0.12 J**	**0.33 J**	2.00 U	**0.75**	0.5 U
cis-1,2-Dichloroethene	70	**2.1**	**1.8 J**	**3.8**	2.00 U	**0.85 J-**	**1.6**	2.00 U	**0.31 J**	0.5 UJ
Ethyl Benzene	700	0.5 U	5 U	0.5 UJ	2.00 U	0.5 U	**0.14 J**	2.00 U	0.5 U	0.5 U
Methylene Chloride	5	0.5 U	5 U	0.5 U	2.00 U	0.5 U	0.5 U	2.00 U	0.5 U	0.5 U
Styrene	100	0.5 U	5 U	0.5 UJ	2.00 U	0.5 U	0.5 U	2.00 U	0.5 U	0.5 U
Tetrachloroethene	5	**0.55**	5 U	**0.93 J-**	2.00 U	**0.38 J**	**0.86**	2.00 U	**0.82**	**0.15 J**
Toluene	1000	**0.1 J**	**1.6 J**	0.5 UJ	2.00 U	0.5 U	0.5 U	2.00 U	0.5 U	0.5 U
Trichloroethene	5	**2**	**1.6 J**	**3.1 J-**	2.00 U	**1.4**	**2.1**	2.00 U	**0.28 J**	0.5 U
Vinyl Chloride	2	0.5 U	5 U	0.5 U	2.00 U	0.5 U	0.5 U	2.00 U	0.5 U	0.5 U
Xylenes - Total	10000	**0.11 J**	5 U	**0.77 J**	4.00 U	0.5 U	**1.19 J+**	4.00 U	0.5 U	0.5 U

Notes:
All results in microgram per liter
Remediation goals from Record of Decision
or Class I Groundwater Standard from
35 IAC 620.410
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

Table 5
Compounds Detected 2017-2019
Source Area 11 2017-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3YE9	E191105-08	E3YB0	E3YB1	E3YF5	E3YF6	E191105-09	E191105-10
	Station Location	A11-MW006	A11-MW006	A11-MW007	A11-MW007-D	A11-MW007	A11-MW007-D	A11-MW007	A11-MW007-D
	Sample Date	5/20/2019	11/13/2019	11/14/2018	11/14/2018	5/21/2019	5/21/2019	11/13/2019	11/13/2019
Analyte Name	RG	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL	INITIAL
1,1,1-Trichloroethane	200	0.5 U	2.00 U	250 U	250 U	130 U	130 U	10.0 U	10.0 U
1,1,2-Trichloroethane	5	0.5 U	2.00 U	250 U	250 U	130 U	130 U	10.0 U	10.0 U
1,1-Dichloroethene	7	0.5 U	2.00 U	250 U	250 U	130 U	130 U	10.0 U	10.0 U
1,2-Dichloropropane	5	**3.1**	**2.57**	250 U	250 U	130 U	130 U	10.0 U	10.0 U
1,4-Dioxane	7.7	NA	**1.02**	NA	NA	NA	NA	**0.278**	**0.293**
Benzene	5	**8.8**	**3.12**	250 U	250 U	130 U	130 U	10.0 U	10.0 U
Bromodichloromethane	0.2*	0.5 U	2.00 U	250 U	250 U	130 U	130 U	10.0 U	10.0 U
cis-1,2-Dichloroethene	70	0.74 U	2.00 U	250 U	250 U	130 U	130 U	10.0 U	10.0 U
Ethyl Benzene	700	0.5 U	2.00 U	**6500**	**6700**	**2500**	**2600**	**1420 (D)**	**1420 (D)**
Methylene Chloride	5	0.5 U	2.00 U	250 U	250 U	130 U	130 U	10.0 U	10.0 U
Styrene	100	0.5 U	2.00 U	250 U	250 U	130 U	130 U	10.0 U	10.0 U
Tetrachloroethene	5	**0.17 J**	2.00 U	250 U	250 U	130 U	130 U	10.0 U	10.0 U
Toluene	1000	0.5 U	2.00 U	**200 J**	**230 J**	**12 J**	**10 J**	10.0 U	10.0 U
Trichloroethene	5	0.5 U	2.00 U	250 U	250 U	130 U	130 U	10.0 U	10.0 U
Vinyl Chloride	2	0.5 U	2.00 U	250 U	250 U	130 U	130 U	10.0 U	10.0 U
Xylenes - Total	10000	**0.24 J+**	4.00 U	**13000 (D)**	**13000 (D)**	**4500**	**4500**	**4190 (D)**	**4190 (D)**

Notes:
All results in microgram per liter
Remediation goals from Record of Decision
or Class I Groundwater Standard from
35 IAC 620.410
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E52H2	E52L5	E52R7	E52S7	E3XB9	E3XC9	E3XF8	E3XG8	E3XP2
	Station Location	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001
	Sample Date	4/19/2011	7/20/2011	1/11/2012	4/2/2012	9/18/2012	12/4/2012	3/14/2013	6/25/2013	8/6/2014
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	**240**	**210 (D)**	**200**	**210 (D)**	**150 J**	**34**	**36 (D)**	**47 (D)**	**15**
1,1,2-Trichloroethane	5	20 U	**0.41 J**	5 U	**0.44 J**	5 U	5 U	0.5 U	**0.068 J**	0.5 U
1,1-Dichloroethene	7	**11 J**	**11**	5 U	**11**	**9.4**	5 U	**3.2**	**3.8**	**1.1 J**
1,2-Dichloropropane	5	20 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane	7.7	400 R	100 R	100 R	100 R	100 R	100 U	NA	NA	NA
Benzene	5	20 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.2*	20 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	70	**9.4 J**	**7.9**	**9.2**	**5.8**	**2.9 J**	**1.4 J**	**2.3**	**3**	**1.5 J**
Ethyl Benzene	700	20 U	**0.25 J**	5 U	5.0 U	5 U	5 U	**0.14 J**	**0.12 J**	**0.18 J**
Methylene Chloride	5	20 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Styrene	100	20 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	**3.5 J**	**3.7 J**	**4.6 J**	**4.0 J**	**4.4 J**	**2.7 J**	**1.8**	**2.8**	**1.1**
Toluene	1000	20 U	5 U	5 U	**0.68 J**	**0.92 J**	5 U	0.5 U	**0.52**	1 U
Trichloroethene	5	**8.6 J**	**6.1**	**4.7 J**	**4.2 J**	**4.1 J**	**2.3 J**	**2.2**	**4**	**1.5**
Vinyl Chloride	2	20 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Xylenes - Total	10000	**20 U**	**0.5 J**	5 U	5.0 U	5 U	5 U	**0.47 J**	**0.65 J**	**0.26 J**

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3XQ3	E3XX1	E3XZ8	E3Y44	E3Y45	E3YA2	E3YF1	E191105-02	E52K7
	Station Location	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001-D	A11-MW001	A11-MW001	A11-MW001	A11-MW002
	Sample Date	12/17/2014	5/20/2015	4/6/2016	3/9/2017	3/9/2017	11/13/2018	5/20/2019	11/12/2019	4/20/2011
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	**18**	**17 J-**	**17**	**11**	**12**	**9.3**	**22 (D)**	**7.21**	5 U
1,1,2-Trichloroethane	5	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	**10**
1,1-Dichloroethene	7	**2.1**	**1.9 J-**	0.5 U	**1.4**	**1.5**	**1.7**	**4.6**	2.00 U	5 U
1,2-Dichloropropane	5	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	**7.6**
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	NA	NA	**12.2**	100 R
Benzene	5	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	5 U
Bromodichloromethane	0.2*	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	5 U
cis-1,2-Dichloroethene	70	**1.6**	**1.8 J-**	**1.4**	**1.3**	**1.4**	**1.7**	**3.4**	2.00 U	5 U
Ethyl Benzene	700	0.5 UJ	0.5 UJ	**0.15 J**	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	**2700 J(D)**
Methylene Chloride	5	0.5 U	1 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	5 U
Styrene	100	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	5 U
Tetrachloroethene	5	**1.3 J**	**1.3 J-**	**1.2**	**0.81**	**0.89**	**1**	**2.7**	2.00 U	5 U
Toluene	1000	0.5 UJ	0.5 UJ	0.5 U	**0.09 J**	**0.1 J**	0.5 U	0.5 U	2.00 U	**110**
Trichloroethene	5	**1.7 J**	**2.1 J-**	**2.8**	**2.2**	**2.4**	**3.7**	**4.7**	2.00 U	5 U
Vinyl Chloride	2	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	5 U
Xylenes - Total	10000	0.5 UJ	0.5 UJ	**0.85 J**	0.5 U	**0.11 J**	0.5 U	**0.3 J+**	4.00 U	**9010 J(D)**

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E52N5	E52S4	E52S8	E3XC0	E3XD0	E3XF9	E3XH0	E3XP7	E3XQ7
	Station Location	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002
	Sample Date	7/21/2011	1/12/2012	4/3/2012	9/19/2012	12/5/2012	3/14/2013	6/26/2013	8/7/2014	12/17/2014
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	50 U	500 U	250 U	5000 U	4000 U	**110 J**	**34**	6300 U	1000 U
1,1,2-Trichloroethane	5	50 U	500 U	250 U	5000 U	4000 U	5 U	5 U	6300 U	1000 U
1,1-Dichloroethene	7	50 U	500 U	250 U	5000 U	4000 U	**43**	5 U	6300 U	1000 U
1,2-Dichloropropane	5	50 U	500 U	250 U	5000 U	4000 U	5 UJ	5 UJ	6300 U	1000 U
1,4-Dioxane	7.7	1000 R	10000 R	5000 R	100000 R	80000 U	100 R	100 R	130000 R	20000 R
Benzene	5	50 U	500 U	250 U	**5000 U**	4000 U	5 UJ	**5.3**	6300 U	1000 U
Bromodichloromethane	0.2*	50 U	500 U	250 U	5000 U	4000 U	5 UJ	5 UJ	6300 U	1000 U
cis-1,2-Dichloroethene	70	50 U	500 U	**100 J**	5000 U	4000 U	**160**	**69**	6300 U	1000 U
Ethyl Benzene	700	**2000 (D)**	**3700**	**2700**	**4500 J**	**3900 J**	**1400 J**	**3400 (D)**	**3700 J**	**3100**
Methylene Chloride	5	50 U	500 U	500 U	5000 U	5 U	5 U	5 U	6300 U	1000 U
Styrene	100	50 U	500 U	250 U	5000 U	4000 U	5 R	5 UJ	6300 U	1000 U
Tetrachloroethene	5	50 U	500 U	250 U	5000 U	4000 U	5 R	**2.4 J**	6300 U	1000 U
Toluene	1000	50 U	NA	**160000 (D)**	**130000**	**220000 (D)**	**200000 (D)**	**210000 (D)**	**150000**	**190000 (D)**
Trichloroethene	5	50 U	500 U	250 U	5000 U	4000 U	5 R	**7.6 J**	6300 U	1000 U
Vinyl Chloride	2	50 U	500 U	250 U	5000 U	4000 U	**12**	5 U	6300 U	1000 U
Xylenes - Total	10000	**8371 (D)**	**14700**	**11500**	**16800 J**	**16400 J**	**13100 J(D)**	**14400 (D)**	**15100 J**	**12700**

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3XX5	E3XZ9	E3Y50	E3YA3	E3YF7	E191105-03	E52K8	E52N6	E52S3
	Station Location	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW003	A11-MW003	A11-MW003
	Sample Date	5/21/2015	4/7/2016	3/10/2017	11/14/2018	5/21/2019	11/13/2019	4/20/2011	7/21/2011	1/12/2012
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	**73 J-**	**190 J**	1000 U	250 U	2500 U	200 U	1000 U	**27**	200 U
1,1,2-Trichloroethane	5	1000 UJ	500 U	1000 U	250 U	2500 U	200 U	1000 U	10 U	200 U
1,1-Dichloroethene	7	1000 UJ	500 U	1000 UJ	250 U	2500 U	200 U	**130 J**	10 U	200 U
1,2-Dichloropropane	5	1000 UJ	500 U	1000 U	250 U	2500 U	200 U	1000 U	10 U	200 U
1,4-Dioxane	7.7	20000 R	NA	NA	NA	NA	**4.42**	**9300 J**	200 R	4000 R
Benzene	5	1000 UJ	500 U	1000 U	250 U	2500 U	200 U	1000 U	10 U	200 U
Bromodichloromethane	0.2*	1000 UJ	500 U	1000 U	250 U	2500 U	200 U	1000 U	10 U	200 U
cis-1,2-Dichloroethene	70	**88 J-**	**140 J**	1000 UJ	**170 J**	2500 U	200 U	1000 U	**2.7 J**	200 U
Ethyl Benzene	700	**7200 J-(D)**	**5700**	**4100**	**3300**	**3700**	**4420 J**	**1200**	**420 (D)**	**3000**
Methylene Chloride	5	**2000 UJ**	500 U	1000 U	250 U	2500 U	200 U	1000 U	**0.65 J**	200 U
Styrene	100	1000 UJ	500 U	1000 U	250 U	2500 U	**371**	1000 U	10 U	200 U
Tetrachloroethene	5	1000 UJ	500 U	1000 U	250 U	2500 U	200 U	1000 U	10 U	200 U
Toluene	1000	**110000 J-(D)**	**180000 J(D)**	**220000 J (D)**	**160000 J(D)**	**88000**	**22500 J**	**1000**	10 U	**1000**
Trichloroethene	5	1000 UJ	500 U	1000 U	250 U	2500 U	200 U	1000 U	10 U	200 U
Vinyl Chloride	2	1000 UJ	500 U	1000 U	250 U	2500 U	200 U	1000 U	10 U	200 U
Xylenes - Total	10000	**26300 J-**	**25200**	**17800**	**14300 (D)**	**14200**	**14930**	**5400 J**	**3003.2 J(D)**	**12290 (D)**

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E52S9	E3XC1	E3XD1	E3XG0	E3XG9	E3XP8	E3XQ8	E3XX6	E3Y00
	Station Location	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003
	Sample Date	4/3/2012	9/19/2012	12/5/2012	3/14/2013	6/26/2013	8/7/2014	12/17/2014	5/20/2015	4/7/2016
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	50 U	1000 U	130 U	130 U	**7.4**	130 U	50 U	50 UJ	**2.3 J**
1,1,2-Trichloroethane	5	50 U	1000 U	130 U	130 U	5 U	130 U	50 U	50 UJ	5 U
1,1-Dichloroethene	7	50 U	1000 U	130 U	130 U	5 U	130 U	50 U	50 UJ	5 UJ
1,2-Dichloropropane	5	50 U	1000 U	130 U	130 U	5 U	130 U	50 U	50 UJ	5 U
1,4-Dioxane	7.7	1000 R	20000 R	2500 U	2500 R	100 R	2500 R	1000 R	1000 R	NA
Benzene	5	50 U	1000 U	130 U	130 U	5 U	130 U	50 U	50 UJ	5 U
Bromodichloromethane	0.2*	50 U	1000 U	130 U	130 U	5 U	130 U	50 U	50 UJ	5 U
cis-1,2-Dichloroethene	70	50 U	1000 U	130 U	130 U	**1.3 J**	130 U	50 U	50 UJ	**1.2 J-**
Ethyl Benzene	700	**1300**	**1500**	**300**	**92 J**	**40 J**	**730**	**78**	**320 J-**	**33**
Methylene Chloride	5	100 U	1000 U	5 U	130 U	5 U	130 U	50 U	**100 UJ**	5 U
Styrene	100	50 U	1000 U	130 U	130 U	5 U	130 U	50 U	50 UJ	5 U
Tetrachloroethene	5	50 U	1000 U	130 U	130 U	5 U	130 U	50 U	50 UJ	5 U
Toluene	1000	**550**	**360 J**	**980**	130 U	**32 J**	**620**	**96**	**160 J-**	**23**
Trichloroethene	5	50 U	1000 U	130 U	130 U	**0.53 J**	130 U	50 U	50 UJ	5 U
Vinyl Chloride	2	50 U	1000 U	130 U	130 U	5 U	130 U	50 U	50 UJ	5 U
Xylenes - Total	10000	**11025 J(D)**	**11000**	**9830 (D)**	**4200**	**1400 (D)**	**3200**	**1200**	**4304.5 J-(D)**	**392.2 J(D)**

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3Y51	E3YA4	E3YF4	E191105-04	E52K9	E52N1	E52S2	E52T0	E3XC2
	Station Location	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A
	Sample Date	3/10/2017	11/14/2018	5/21/2019	11/13/2019	4/20/2011	7/20/2011	1/12/2012	4/3/2012	9/19/2012
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	250 U	100 U	250 U	10.0 U	10000 U	1000 U	2500 U	**40 J**	5000 U
1,1,2-Trichloroethane	5	250 U	100 U	250 U	10.0 U	10000 U	1000 U	2500 U	250 U	5000 U
1,1-Dichloroethene	7	250 U	100 U	250 U	10.0 U	**1100 J**	1000 U	2500 U	250 U	5000 U
1,2-Dichloropropane	5	250 U	100 U	250 U	10.0 U	10000 U	1000 U	2500 U	250 U	5000 U
1,4-Dioxane	7.7	NA	NA	NA	**12**	200000 R	20000 R	50000 R	5000 R	100000 R
Benzene	5	250 U	100 U	250 U	10.0 U	10000 U	1000 U	2500 U	250 U	5000 U
Bromodichloromethane	0.2*	250 U	100 U	250 U	10.0 U	10000 U	1000 U	2500 U	250 U	5000 U
cis-1,2-Dichloroethene	70	250 U	100 U	250 U	10.0 U	10000 U	1000 U	2500 U	250 U	5000 U
Ethyl Benzene	700	**450**	**130**	**160 J**	**144**	10000 U	**240 J**	**3000**	**400**	5000 U
Methylene Chloride	5	250 U	100 U	250 U	10.0 U	10000 U	2000 U	2500 U	500 U	5000 U
Styrene	100	250 U	100 U	250 U	10.0 U	10000 U	1000 U	2500 U	250 U	5000 U
Tetrachloroethene	5	250 U	100 U	250 U	10.0 U	10000 U	1000 U	2500 U	250 U	5000 U
Toluene	1000	**190 J**	**54 J**	**570**	**133**	**160000**	**200000 (D)**	**180000 (D)**	**120000 (D)**	**170000**
Trichloroethene	5	250 U	100 U	250 U	10.0 U	10000 U	1000 U	2500 U	250 U	5000 U
Vinyl Chloride	2	250 U	100 U	250 U	10.0 U	10000 U	1000 U	2500 U	250 U	5000 U
Xylenes - Total	10000	**4900**	**3500**	**12000 (D)**	**2910 (D)**	10000 U	**419 J**	**12400**	**707 J**	**2100 J**

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3XD2	E3XG1	E3XH1	E3XP9	E3XQ9	E3XX7	E3Y01	E3Y52	E3YA6
	Station Location	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A
	Sample Date	12/5/2012	3/14/2013	6/26/2013	8/7/2014	12/17/2014	5/20/2015	4/7/2016	3/10/2017	11/14/2018
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	1000 U	500 U	**42**	5000 U	1000 U	1000 UJ	**21**	250 U	2500 U
1,1,2-Trichloroethane	5	1000 U	500 U	5 U	5000 U	1000 U	1000 UJ	5 U	250 U	2500 U
1,1-Dichloroethene	7	1000 U	500 U	**9.4**	5000 U	1000 U	1000 UJ	5 U	250 UJ	2500 UJ
1,2-Dichloropropane	5	1000 U	500 U	5 U	5000 U	1000 U	1000 UJ	5 U	250 U	2500 U
1,4-Dioxane	7.7	20000 U	10000 R	100 R	100000 R	20000 R	20000 R	NA	NA	NA
Benzene	5	1000 U	500 U	5 U	5000 U	1000 U	1000 UJ	5 U	250 U	2500 U
Bromodichloromethane	0.2*	1000 U	500 U	5 U	5000 U	1000 U	1000 UJ	5 U	250 U	2500 U
cis-1,2-Dichloroethene	70	1000 U	500 U	**17**	5000 U	1000 U	1000 UJ	**14**	250 UJ	2500 UJ
Ethyl Benzene	700	**430 J**	**1100**	**810 (D)**	5000 U	**220 J**	**420 J-**	**440 J(D)**	**320**	2500 U
Methylene Chloride	5	5 U	500 U	5 U	5000 U	1000 U	**2000 UJ**	5 U	250 U	2500 U
Styrene	100	1000 U	500 U	5 UJ	5000 U	1000 U	1000 UJ	5 UJ	250 U	2500 U
Tetrachloroethene	5	1000 U	500 U	**37 J**	5000 U	1000 U	1000 UJ	**18 J-**	250 U	2500 U
Toluene	1000	**120000 (D)**	**190000 (D)**	**230000**	**110000**	**100000 (D)**	**130000 J-(D)**	**150000 J(D)**	**79000 (D)**	**48000**
Trichloroethene	5	1000 U	500 U	**5.8 J**	5000 U	1000 U	1000 UJ	**8.8 J-**	250 U	2500 U
Vinyl Chloride	2	1000 U	500 U	5 U	5000 U	1000 U	1000 UJ	5 U	250 U	2500 U
Xylenes - Total	10000	**2250 J**	**4570**	**3660 (D)**	**3900 J**	**430 J**	**98 J-**	**1140 J(D)**	**539 J**	2500 U

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3YA7	E3YF8	E191105-05	E52L0	E52N2	E52S1	E52T1	E52T6	E3XC3
	Station Location	A11-MW004A-D	A11-MW004A	A11-MW004A	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B-D	A11-MW004B
	Sample Date	11/14/2018	5/21/2019	11/13/2019	4/20/2011	7/20/2011	1/12/2012	4/3/2012	4/3/2012	9/18/2012
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	2500 U	250 U	400 U	**190 J**	**98**	**74**	**59**	**58**	**64**
1,1,2-Trichloroethane	5	2500 U	250 U	400 U	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U
1,1-Dichloroethene	7	2500 UJ	250 U	400 U	**6.6 J**	**5.3**	5 U	**3.7 J**	**4.0 J**	5 U
1,2-Dichloropropane	5	2500 U	250 U	400 U	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U
1,4-Dioxane	7.7	NA	NA	**1.2**	400 R	100 R	100 R	100 R	100 R	100 R
Benzene	5	2500 U	250 U	400 U	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U
Bromodichloromethane	0.2*	2500 U	250 U	400 U	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U
cis-1,2-Dichloroethene	70	2500 UJ	250 U	400 U	**7.8 J**	**5.1**	**5.9**	**4.1 J**	**4.0 J**	**4.2 J**
Ethyl Benzene	700	2500 U	**440**	**455**	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U
Methylene Chloride	5	2500 U	250 U	400 U	20 UJ	10 U	5 U	5.0 U	10 U	5 U
Styrene	100	2500 U	250 U	400 U	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U
Tetrachloroethene	5	2500 U	250 U	400 U	20 UJ	**0.4 J**	5 U	**0.67 J**	**0.55 J**	**0.61 J**
Toluene	1000	**39000**	**59000 (D)**	**64300**	20 UJ	5 U	5 U	**3.0 J**	**2.8 J**	**0.75 J**
Trichloroethene	5	2500 U	250 U	400 U	**4 J**	**2.7 J**	**3.4 J**	**3.0 J**	**2.9 J**	**3.5 J**
Vinyl Chloride	2	2500 U	250 U	400 U	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U
Xylenes - Total	10000	2500 U	**706**	800 U	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3XC4	E3XD3	E3XD4	E3XG2	E3XG3	E3XH2	E3XH3	E3XP3	E3XP4
	Station Location	A11-MW004B-D	A11-MW004B	A11-MW004B-D	A11-MW004B	A11-MW004B-D	A11-MW004B	A11-MW004B-D	A11-MW004B	A11-MW004B-D
	Sample Date	9/18/2012	12/4/2012	12/4/2012	3/14/2013	3/14/2013	6/26/2013	6/26/2013	8/7/2014	8/7/2014
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	**64**	**26**	**38**	**24 (D)**	**35 (D)**	**25 (D)**	**27 (D)**	**14**	**14**
1,1,2-Trichloroethane	5	5 U	5 U	5 U	0.5 U	0.5 U	**0.066 J**	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	7	5 U	5 U	5 U	**2.1**	**2.2**	**2.5**	**2.8**	**1.2 J**	**1.2 J**
1,2-Dichloropropane	5	5 U	5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane	7.7	100 R	100 U	100 U	NA	NA	NA	NA	NA	NA
Benzene	5	5 U	5 UJ	5 U	0.5 U	0.5 U	**0.086 J**	**0.078 J**	0.5 U	0.5 U
Bromodichloromethane	0.2*	5 U	5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	70	**4.4 J**	**3.3 J**	**3.9 J**	**2.9**	**2.9**	**3**	**3.2**	**1.8 J**	**1.7 J**
Ethyl Benzene	700	5 U	5 U	5 U	**0.15 J**	**0.16 J**	**0.16 J**	**0.17 J**	**0.2 J**	**0.19 J**
Methylene Chloride	5	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	100	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	**0.79 J**	5 U	5 U	**0.39 J**	**0.36 J**	**0.64**	**0.67**	**0.49 J**	**0.45 J**
Toluene	1000	**0.94 J**	5 U	**2.1 J**	0.5 U	0.5 U	**0.8**	**0.84**	1 U	1 U
Trichloroethene	5	**3.6 J**	**1.9 J**	**2.4 J**	**1.9**	**1.8**	**2.6**	**2.9**	**2.1**	**2.2**
Vinyl Chloride	2	5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes - Total	10000	5 U	5 U	5 U	**0.69 J**	**0.67 J**	**1.01 J**	**0.11 J**	**0.31 J**	**0.3 J**

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3XQ4RE	E3XQ5RE	E3XX2	E3XX3	E3Y02	E3Y03	E3Y48	E3YA5	E3YF2
	Station Location	A11-MW004B	A11-MW004B-D	A11-MW004B	A11-MW004B-D	A11-MW004B	A11-MW004B-D	A11-MW004B	A11-MW004B	A11-MW004B
	Sample Date	12/17/2014	12/17/2014	5/20/2015	5/20/2015	4/6/2016	4/6/2016	3/10/2017	11/15/2018	5/20/2019
Analyte Name	**RG**	**RE**	**RE**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	**15 J**	**16**	**14 J-**	**15 J-**	**12**	**11**	**12**	**8.9**	**18**
1,1,2-Trichloroethane	5	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	5 U	0.5 U
1,1-Dichloroethene	7	**2.5**	**2**	**1.6 J-**	**1.6 J-**	0.5 U	0.5 U	**1.8**	5 U	**3.2**
1,2-Dichloropropane	5	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	5 U	0.5 U
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	5	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	5 U	0.5 U
Bromodichloromethane	0.2*	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	5 U	0.5 U
cis-1,2-Dichloroethene	70	**2.2**	**2.2**	**2.1 J-**	**2.1 J-**	**2**	**2.2**	**2.1**	**1.8 J**	**3.8**
Ethyl Benzene	700	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	5 U	0.5 UJ
Methylene Chloride	5	1 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	5 U	0.5 U
Styrene	100	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	5 U	0.5 UJ
Tetrachloroethene	5	**0.61**	**0.59**	**0.53 J-**	**0.53 J-**	**0.57**	**0.47 J**	**0.55**	5 U	**0.93 J-**
Toluene	1000	590 U	590 U	1.4 UJ	1.4 UJ	**8**	**7.9**	**0.1 J**	**1.6 J**	0.5 UJ
Trichloroethene	5	**2**	**2**	**2.1 J-**	**2.2 J-**	**2.6**	**2.3**	**2**	**1.6 J**	**3.1 J-**
Vinyl Chloride	2	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	5 U	0.5 U
Xylenes - Total	10000	110 U	110 U	0.5 UJ	0.5 UJ	**0.38 J**	**0.14 J**	**0.11 J**	5 U	**0.77 J**

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E191105-06	E52H3	E52H4	E52L6	E52L7	E52S0	E52T2	E3XC5	E3XD5
	Station Location	A11-MW004B	A11-MW005	A11-MW005-D	A11-MW005	A11-MW005-D	A11-MW005	A11-MW005	A11-MW005	A11-MW005
	Sample Date	11/12/2019	4/19/2011	4/19/2011	7/20/2011	7/20/2011	1/11/2012	4/2/2012	9/18/2012	12/4/2012
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	**6.26**	**67**	**69**	**38**	**38**	**15**	**16**	**19**	**12**
1,1,2-Trichloroethane	5	2.00 U	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U
1,1-Dichloroethene	7	2.00 U	5 U	25 U	**3.6 J**	**3.8 J**	5 U	**2.4 J**	5 U	5 U
1,2-Dichloropropane	5	2.00 U	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U
1,4-Dioxane	7.7	**13.4**	**21 J**	**17 J**	100 R	100 R	100 R	100 R	100 R	100 U
Benzene	5	2.00 U	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U
Bromodichloromethane	0.2*	2.00 U	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U
cis-1,2-Dichloroethene	70	2.00 U	**6**	**6**	**4.6 J**	**4.7 J**	**3.2 J**	**2.9 J**	**2.6 J**	**3.5 J**
Ethyl Benzene	700	2.00 U	5 U	5 U	**0.18 J**	**0.23 J**	5 U	**0.80 J**	5 U	5 U
Methylene Chloride	5	2.00 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Styrene	100	2.00 U	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U
Tetrachloroethene	5	2.00 U	5 U	5 U	**0.4 J**	**0.41 J**	5 U	**0.45 J**	5 U	5 U
Toluene	1000	2.00 U	5 U	5 U	5 U	5 U	5 U	**1.8 J**	**0.66 J**	5 U
Trichloroethene	5	2.00 U	**1.8 J**	**1.7 J**	**1.4 J**	**1.4 J**	5 U	**0.95 J**	**1.2 J**	5 U
Vinyl Chloride	2	2.00 U	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U
Xylenes - Total	10000	4.00 U	5 U	5 U	**0.31 J**	**0.49 J**	5 U	**0.42 J**	5 U	5 U

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3XG4	E3XH4	E3XP1	E3XQ2	E3XX0	E3Y04	E3YA8	E3YF0	E191105-07
	Station Location	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005
	Sample Date	3/13/2013	6/25/2013	8/6/2014	12/17/2014	5/19/2015	4/6/2016	11/13/2018	5/20/2019	11/12/2019
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	**13**	**11**	**3.6**	**5.4**	**6.1 J-**	**4.4**	**3.5**	**6.4**	**2.46**
1,1,2-Trichloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U
1,1-Dichloroethene	7	**1.8**	0.5 U	1 U	**1.3**	**0.88 J-**	0.5 U	0.5 UJ	**1.1**	2.00 U
1,2-Dichloropropane	5	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	NA	NA	NA	**7.63**
Benzene	5	0.5 U	**0.096 J**	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U
Bromodichloromethane	0.2*	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	**0.12 J**	**0.12 J**	**0.33 J**	2.00 U
cis-1,2-Dichloroethene	70	**3.2**	**2.7**	**1.4 J**	**2.1**	**2.1 J-**	**1.9**	**0.85 J-**	**1.6**	2.00 U
Ethyl Benzene	700	**0.14 J**	**0.18 J**	**0.25 J**	0.5 UJ	0.5 UJ	**0.21 J**	0.5 U	**0.14 J**	2.00 U
Methylene Chloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U
Styrene	100	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U
Tetrachloroethene	5	**0.29 J**	**0.41 J**	**0.23 J**	**0.33 J**	0.5 UJ	**0.22 J**	**0.38 J**	**0.86**	2.00 U
Toluene	1000	0.5 U	**0.82**	1 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U
Trichloroethene	5	**0.97**	**1.3 J**	**0.5**	**1.2 J**	**1.7 J-**	**1.2**	**1.4**	**2.1**	2.00 U
Vinyl Chloride	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U
Xylenes - Total	10000	**0.43 J**	**0.92 J**	**0.35 J**	110 UJ	0.5 UJ	**1.27 J**	0.5 U	**1.19 J+**	4.00 U

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E52L1	E52N3	E52R8	E52R9	E52T3	E3XC6	E3XD6	E3XG5	E3XH5RE
	Station Location	A11-MW006	A11-MW006	A11-MW006	A11-MW006-D	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006
	Sample Date	4/20/2011	7/20/2011	1/11/2012	1/11/2012	4/2/2012	9/18/2012	12/4/2012	3/13/2013	6/25/2013
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**RE**
1,1,1-Trichloroethane	200	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	5	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U
1,1-Dichloroethene	7	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U
1,2-Dichloropropane	5	5 U	**0.73 J**	5 U	5 U	5.0 U	5 U	5 U	**1.2**	**0.62**
1,4-Dioxane	7.7	100 R	100 R	100 R	100 R	100 R	100 R	100 U	NA	NA
Benzene	5	**3.3 J**	**2.9 J**	5 U	5 U	**3.1 J**	5 U	5 U	**4.3**	**0.4 J**
Bromodichloromethane	0.2*	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	70	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U
Ethyl Benzene	700	5 U	**0.21 J**	5 U	5 U	5.0 U	5 U	5 U	**0.21 J**	**0.21 J**
Methylene Chloride	5	5 U	10 U	5 U	5 U	10 U	5 U	5 U	0.5 U	0.5 U
Styrene	100	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U
Tetrachloroethene	5	**1.2 J**	5 U	5 U	5 U	**0.63 J**	**1.4 J**	5 U	**0.46 J**	**1**
Toluene	1000	5 U	5 U	5 U	5 U	5.0 U	**0.89 J**	5 U	0.5 UJ	**0.9**
Trichloroethene	5	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U
Vinyl Chloride	2	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U
Xylenes - Total	10000	**1.3 J**	**0.71 J**	5 U	5 U	5.0 U	5 U	5 U	**0.8 J**	**1.23 J**

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3XP0	E3XQ1	E3XW9	E3Y05	E3Y47	E3YA9	E3YE9	E191105-08	E3YB0
	Station Location	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW007
	Sample Date	8/6/2014	12/17/2014	5/19/2015	4/6/2016	3/9/2017	11/13/2018	5/20/2019	11/13/2019	11/14/2018
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	0.5 U	0.5 UJ	0.5 UJ	**0.23 J**	**0.38 J**	0.5 U	0.5 U	2.00 U	250 U
1,1,2-Trichloroethane	5	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	250 U
1,1-Dichloroethene	7	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 U	2.00 U	250 U
1,2-Dichloropropane	5	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	**3.1**	**2.57**	250 U
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	NA	NA	**1.02**	NA
Benzene	5	**0.58**	**1.2 J**	0.5 UJ	0.5 U	0.5 U	**2.5**	**8.8**	**3.12**	250 U
Bromodichloromethane	0.2*	0.5 U	0.5 UJ	0.5 UJ	**0.39 J**	**0.75**	0.5 U	0.5 U	2.00 U	250 U
cis-1,2-Dichloroethene	70	0.5 U	**0.1 J**	0.5 UJ	**0.47 J-**	**0.31 J**	0.5 UJ	0.74 U	2.00 U	250 U
Ethyl Benzene	700	**0.36 J**	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	**6500**
Methylene Chloride	5	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	250 U
Styrene	100	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	250 U
Tetrachloroethene	5	**0.38 J**	**0.53 J**	**0.54 J-**	**0.41 J**	**0.82**	**0.15 J**	**0.17 J**	2.00 U	250 U
Toluene	1000	1 U	0.5 UJ	1.4 UJ	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	**200 J**
Trichloroethene	5	0.5 U	0.5 UJ	0.5 UJ	**0.41 J**	**0.28 J**	0.5 U	0.5 U	2.00 U	250 U
Vinyl Chloride	2	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	250 U
Xylenes - Total	10000	**1.66 J**	110 UJ	0.5 UJ	**0.13 J**	0.5 U	0.5 U	**0.24 J+**	4.00 U	**13000 (D)**

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Table 6
Comprehensive List of Compounds Detected 2011-2019
Source Area 11 2019-2019 Report
Southeast Rockford Groundwater Contamination Superfund Site

	EPA Sample ID	E3YB1	E3YF5	E3YF6	E191105-09	E191105-10
	Station Location	A11-MW007-D	A11-MW007	A11-MW007-D	A11-MW007	A11-MW007-D
	Sample Date	11/14/2018	5/21/2019	5/21/2019	11/13/2019	11/13/2019
Analyte Name	**RG**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**	**INITIAL**
1,1,1-Trichloroethane	200	250 U	130 U	130 U	10.0 U	10.0 U
1,1,2-Trichloroethane	5	250 U	130 U	130 U	10.0 U	10.0 U
1,1-Dichloroethene	7	250 U	130 U	130 U	10.0 U	10.0 U
1,2-Dichloropropane	5	250 U	130 U	130 U	10.0 U	10.0 U
1,4-Dioxane	7.7	NA	NA	NA	**0.278**	**0.293**
Benzene	5	250 U	130 U	130 U	10.0 U	10.0 U
Bromodichloromethane	0.2*	250 U	130 U	130 U	10.0 U	10.0 U
cis-1,2-Dichloroethene	70	250 U	130 U	130 U	10.0 U	10.0 U
Ethyl Benzene	700	**6700**	**2500**	**2600**	**1420 (D)**	**1420 (D)**
Methylene Chloride	5	250 U	130 U	130 U	10.0 U	10.0 U
Styrene	100	250 U	130 U	130 U	10.0 U	10.0 U
Tetrachloroethene	5	250 U	130 U	130 U	10.0 U	10.0 U
Toluene	1000	**230 J**	**12 J**	**10 J**	10.0 U	10.0 U
Trichloroethene	5	250 U	130 U	130 U	10.0 U	10.0 U
Vinyl Chloride	2	250 U	130 U	130 U	10.0 U	10.0 U
Xylenes - Total	10000	**13000 (D)**	**4500**	**4500**	**4190 (D)**	**4190 (D)**

Notes:
All results in microgram per liter
"Remediation goals from Record of Decision or Class I
Groundwater Standard from 35 IAC 620.410"
Shaded result exceeds remediation goal
* = Remediation goal from TACO (35 IAC 742)
U = Not detected above the reported limit
J = Estimated result
(D) = Diluted/reanalyzed result
R = Rejected

CDM Smith

Appendix A

Groundwater Sampling Sheets

March 2017 Groundwater Sampling Sheets

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 3/9/17 **WELL #:** MW-1

TIME: **DEPTH OF PUMP:**

WEATHER CONDITIONS: **SAMPLERS:** C. Cox, A. Schamber

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1600			500		8.36	1.32	597	3.07	11.50	
1605			"		8.10	1.33	372	0.64	11.98	
1610			"		8.02	1.35	212	0.13	12.03	
1615					7.99	1.35	157	0.10	12.09	
1620					7.98	1.35	126	0.00	12.12	
1625					7.97	1.35	105	0.00	12.02	
1630					7.96	1.35	94.2	0.00	12.00	
1635					7.94	1.35	65.3	0.00	12.15	
1640					7.94	1.35	43.7	0.00	12.12	
1645					7.92	1.35	39.7	0.00	12.16	
1650					7.92	1.35	24.2	0.00	12.15	
1655					7.92	1.35	18.4	0.00	12.15	

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 3/10/17 WELL #: MW-002

TIME: DEPTH OF PUMP:

WEATHER CONDITIONS: SAMPLERS: C. Cox, A. Schamber

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1320					8.34	0.957	40.1	0	12.90	-130
1325					8.19	1.07	37.5	0	13.13	-117
1330					8.01	1.07	33.9	0	13.30	-114
1335					7.93	1.07	33.5	0	13.22	-112
1340					7.91	1.06	31.1	0	13.27	-112
1345					7.89	1.06	27.0	0	13.22	-111
1350					7.88	1.06	25.9	0	13.29	-109
1355					7.84	1.06	26.0	0	13.30	-108
1400 –	Sample									
Ferrous Fe: 3.30 mg/L										

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 3/10/17

WELL #: MW-003

TIME:

DEPTH OF PUMP:

WEATHER CONDITIONS: Sunny, 30's

SAMPLERS: C. Cox, A. Schamber

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1220					8.48	1.03	146	0	10.02	-70
1225					8.28	1.21	53	0	11.40	-92
1230					8.20	1.21	28.3	0	11.09	-96
1235					8.16	1.22	17.2	0	11.03	-99
1238					8.15	1.22	8.9	0	11.75	-103
1243					8.14	1.22	8.0	0	11.79	-104
1247					8.13	1.22	8.1	0	11.78	-105
1250	Sample									
	Ferrous Fe: 3.23 mg/L									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 3/10/17 **WELL #:** MW-4A

TIME: **DEPTH OF PUMP:**

WEATHER CONDITIONS: **SAMPLERS:**

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1435					8.22	0.932	332	0	11.79	-118
1443					8.07	1.21	83.2	0	12.58	-131
1450					7.97	1.20	16.6	0	12.85	-123
1455					7.94	1.21	15.1	0	12.76	-121
1500					7.92	1.21	10.1	0	12.82	-120
1505					7.92	1.21	9.9	0	12.88	-119
1510					7.90	1.21	9.8	0	12.89	-119
1515 - Sample										
	Ferrous Iron 3.30 mg/L									
			exceeds limit, so > 3.3 mg/L							

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 3/10/17 **WELL #:** MW-41B

TIME: 1070 **DEPTH OF PUMP:**

WEATHER CONDITIONS: **SAMPLERS:** L. Cox, J. Schumacher

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1045					9.15	1.13	0	0	10.73	220
1050					9.11	1.17	861	0	9.03	207
1055					8.41	1.15	213	0	10.21	191
1100					~~8.56~~ 8.38	1.18	124	0	9.56	200
1105					8.35	1.13	96	0	10.32	157
1115					8.27	1.15	43.6	0	11.15	149
1120					8.23	1.15	23.7	0	11.61	149
1125					8.21	1.15	15.4	0	11.63	140
1130					8.20	1.15	12.5	0	11.64	142
1133					8.20	1.15	11.3	0	11.64	143
1135 - Sample										
	Ferrous Fe: 0.02 mg/L									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

November 2018 Groundwater Sampling Sheets

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area

FE ⇒ 0.00

DATE: ~~12/13/18~~ 11-13-18

WELL #: MW-006

TIME: 11:36

DEPTH OF PUMP:

WEATHER CONDITIONS: Sunny, cold

SAMPLERS: Tim Alston + Andy Schamber

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0			250 ml/min		6.90	0.663	1.8	6.39	9.98	168
5					6.90	0.746	1.9	9.35	9.70	-27
10 1146					6.78	0.799	2.7	8.97	9.97	-36
15					6.85	0.800	1.2	6.02	10.56	-65
20					6.77	0.852	2.8	7.14	9.79	-59
25					6.80	0.855	1.8	5.77	11.14	-75
30					6.86	0.861	0.7	4.36	10.97	-79
35					6.87	0.867	1.1	3.16	10.66	-81
40					6.83	0.873	0.4	2.12	10.79	-80
45					6.89	0.875	0.5	1.39	10.42	-81
50					6.91	0.876	0.5	1.41	10.56	-76
55										

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

sample @1225

REV 5/01

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 11-13-18 **WELL #:** MW-005-18K13

TIME: 14:10 **DEPTH OF PUMP:**

WEATHER CONDITIONS: Sunny, cold **SAMPLERS:** Tim Alston + Andy Schamber

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0	300ml		250 ml/min		7.29	0.923	2.7	4.91	8.53	186
5					7.07	1.00	22.7	4.12	10.75	198
10					6.98	1.02	9.0	~~10.42~~ 3.55	10.22	201
15					6.90	1.03	1.7	3.58	10.34	207
20					6.93	1.03	1.4	2.65	8.63	214
25					6.87	1.03	0.5	2.58	9.53	219
30					6.88	1.03	1.1	1.76	7.81	225
35					6.89	1.03	1.0	1.73	8.51	228
40					6.87	1.03	0.8	1.31	7.92	229
45										
50										
55										

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Sample @ 14 55 0.02 mg/L of Ferrous Iron

REV 5/01

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 11-13-18

WELL #: ~~MW-003-181113~~ ~~FB~~ (MW-001) -001-181113 ~~(MW-001)~~

TIME: 15:45

DEPTH OF PUMP:

WEATHER CONDITIONS: Sunny, cold

SAMPLERS: Tim Alston + Andy Schamber

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					7.20	0.809	32.4	0.25	9.33	250
5					7.07	0.822	42.7	0	8.25	228
10					6.96	0.798	17.4	0	10.67	225
15					6.91	0.803	7.2	0	10.45	231
20					6.88	0.796	7.3	0	10.73	235
25					6.64	0.796	5.4	0	10.92	248
30										
35										
40										
45										
50										
55										

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Sample @ 1615

Ferrous Iron conc 0.01 mg/L

REV 5/01

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 11-14-18 **WELL #:** MW-004B

TIME: ~~092~~ ~~0937~~ 0945 **DEPTH OF PUMP:**

WEATHER CONDITIONS: Sunny, Clear skies, cold **SAMPLERS:** Tim Alston + Andy Schamber

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0	300mL		250ml/min		5.68	0.870	116	0	8.90	-3
5					5.92	0.864	113	0	9.35	-25
10					6.28	0.871	70.4	0	8.22	-69
15					6.44	0.895	46.2	0	8.33	-82
20					6.52	0.932	22.4	0	9.80	-92
25					6.59	0.945	12.1	0	9.49	-98
30					6.61	0.966	8.5	0	9.26	-103
35					6.64	0.976	5.7	0	9.54	-106
40					6.66	0.983	4.1	0	9.66	-110
45					6.67	0.990	3.5	0	9.58	-111
50										
55										

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Sample @ 1030 Fe ⇒ 1.42 mg/L

REV 5/01

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 11-14-18

WELL #: MW-003

TIME: 1115

DEPTH OF PUMP:

WEATHER CONDITIONS: Sunny, clear skies, cold

SAMPLERS: Tim Alston + Andy Schamber

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0	300mL		250ml/min		6.97	0.803	40.7	0	9.57	-64
5					6.74	0.989	33.1	0	11.03	-106
10					6.73	0.984	25.1	0	11.35	-114
15					6.73	0.986	15.3	0	11.47	-119
20					6.72	0.986	10.7	0	11.40	-120
25					6.71	0.990	10.4	0	11.44	-120
30					6.69	0.993	5.3	0	11.53	-121
35					6.67	0.992	4.5	0	11.66	-119
40					6.66	0.993	3.9	0	11.94	-121
45										
50										
55										

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Sample @ 1200 Fe ⇒ 2.48 mg/L

REV 5/01

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

○ MW-004A
○ MW-004B

DATE: 11-14-18 **WELL #:** MW-007

TIME: 1230 **DEPTH OF PUMP:**

WEATHER CONDITIONS: Sunny, clear skies, cold **SAMPLERS:** Tim Alston + Andy Schamber

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0	300		250 ml/min		6.24	0.698	242	3.74	12.37	-34
5					6.24	0.809	44.5	0	12.39	-48
10					6.24	0.844	26.4	0	12.64	-54
15					6.23	0.844	21.9	0	10.52	-55
20					6.21	0.879	23.8	0	10.00	-47
25					6.20	0.873	24.2	0	12.53	-53
30 *					6.26	0.872	28.3	4.25	13.11	-52
35 *					6.52	0.883	31.8	0	11.96	-37
40					6.24	0.883	9.9	0	12.55	-46
45					6.24	0.893	9.2	0	12.02	-52
50					6.24	0.883	8.6	0	11.57	-55
55										

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

* Issues w/ consistent flow of pump between 1:00 — 1:20pm *

Sample @ 1405 Fe → 1.35 mg/L

REV 5/01

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 11-14-18 **WELL #:** MW-002

TIME: ~~0~~ 14:50 **DEPTH OF PUMP:**

WEATHER CONDITIONS: Sunny, clear skies, cold **SAMPLERS:** Tim Alston, Andy Schanbar (Cdm Smith)

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0	300 mL		250 ml/min		9.65	0.503	121	7.53	12.45	-138
5					9.39	0.501	53.2	~~11.~~ (5.88)	11.50	-158
10					9.25	0.537	190	0	12.23	-21
15 *					7.81	0.693	213	0	11.37	-114
20					7.37	0.820	63.1	0	10.60	-92
25					7.05	0.824	29.3	0	11.01	-93
30					6.74	0.807	24.1	0	11.96	-91
35					6.71	0.799	29.4	0	11.81	-93
40					6.71	0.791	28.4	0	11.82	-160
45					6.71	~~0.796~~ 0.790	27.8	0	11.11	-101
50										
55	↓		↓							

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

*@ 1515 Switched pumps and battery; was having issues w/ the flow from the well through the pump

*@ 1544 checked water level, was in coordinance w/ water level measured yesterday @ 24.0 ft. Pump (new) was experiencing flow issues

Sample @ 1670

Fe → 1.68 mg/L

REV 5/01

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 11-15-18 **WELL #:** MW-004A

TIME: 1030 **DEPTH OF PUMP:**

WEATHER CONDITIONS: Overcast, cold, off/on flurries **SAMPLERS:** Tim Alston + Andy Schamber

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0	200 mL		250 ml/min		7.30	0.254	1.8	0	11.26	220
5					7.02	0.258	2.4	0	11.38	214
10					6.94	0.263	27.4	0	11.07	231
15					6.66	0.614	4.3	0	11.35	215
20					6.77	0.798	4.4	0	11.35	202
25					6.75	0.794	4.5	0	11.34	192
30					6.77	0.803	3.2	0	11.36	186
35					6.79	0.804	2.9	0	11.30	184
40					6.83	0.80	3.1	0	11.42	204
45										
50										
55										

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Sample @ 1115

Fe ⇒ 0.09 mg/L

REV 5/01

May 2019 Groundwater Sampling Sheets

Well Development Log

SITE NAME: Southeast Rockford, Area 11

DATE: 5-20-19

WELL #: MU001

TIME: 1430

DEPTH OF PUMP:

WEATHER CONDITIONS: overcast, chilly

SAMPLERS: Andy + Tim

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					8.07	1.17	567	1.74	16.18	111
5					7.21	1.19	719	0.77	14.96	147
10					7.12	1.21	455	1.23	14.70	151
15					7.25	1.21	253	1.23	14.69	145
20					7.13	1.11	163	1.12	14.68	150
25					7.24	1.21	111	0.79	14.77	142
30					7.14	1.21	98.5	1.24	14.65	149
35					7.22	1.21	53.4	1.19	14.45	144
40					7.23	1.21	28.6	1.21	14.50	145
45					7.16	1.21	20.1	1.13	14.50	156
50					7.17	1.21	15.6	1.09	14.45	152
55					7.13	1.21	12.9	1.11	14.38	155

iron sample not collected, not enough algainox

Sample @ 1525

Well Development Log

SITE NAME: Southeast Rockford, Area 11

DATE: 5-21-19

WELL #: MW002

TIME: 11:09

DEPTH OF PUMP:

WEATHER CONDITIONS: overcast, windy, chilly in the 50's

SAMPLERS: Andy + Tim

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					7.89	0.965	91.3	0	13.90	-42
5					7.25	1.16	268	0	13.67	-89
10					7.18	1.22	171	0	14.84	-102
15					7.18	1.23	126	0	14.32	-106
20					7.18	1.23	136	0	14.23	-108
25					7.10	1.21	106	0	15.64	-108
30					7.07	1.22	79.2	0	15.70	-109
35					7.21	1.22	55.0	0	15.33	-118
40					7.20	1.22	40.9	0	15.13	-119
45					7.19	1.22	41.6	0	15.02	-119
50										
55										

Sample @ 1205

Fe → 1.83 mg/L

Well Development Log

SITE NAME: Southeast Rockford, Area 11

DATE: 5-21-19

WELL #: MW003

TIME: 0752

DEPTH OF PUMP:

WEATHER CONDITIONS: overcast, chilly

SAMPLERS: Andy + Jim

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					8.79	1.41	433	0	11.71	-4
5					7.27	1.47	277	0	12.29	-105
10					7.27	1.50	240	0	13.01	-116
15					7.29	1.51	187	0	13.11	-123
20					7.32	1.52	164	0	13.08	-127
25					7.34	1.52	133	0	13.22	-130
30					7.35	1.54	113	0	13.08	-132
35					7.35	1.54	103	0	13.13	-38
40					7.36	1.54	95.2	0	13.13	-134
45					7.35	1.53	70.4	0	13.35	-134
50					7.29	1.53	60.1	0	13.55	-152
55					7.31	1.53	54.2	0	13.72	-134

Sample @ 0850

Well Development Log

SITE NAME: Southeast Rockford, Area 11

DATE: 5-21-19 WELL #: MW004A

TIME: 1245 DEPTH OF PUMP:

WEATHER CONDITIONS: overcast, windy SAMPLERS: Andy & Jim

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					7.62	1.30	164	0	13.27	-73
5					7.58	1.29	115	0	13.24	-120
10					7.56	1.27	80.5	0	13.19	-150
15					7.55	1.25	61.5	0	13.15	-162
20					7.50	1.24	53.6	0	13.12	-164
25					7.46	1.23	47.0	0	13.04	-165
30					7.45	1.22	40.3	0	13.09	-167
35					7.53	1.22	37.6	0	13.10	-172
40					7.55	1.21	33.0	0	13.30	-174
45					7.56	1.21	31.9	0	13.48	-175
50										
55										

Sample @ 1330

Fe → 2.25 mg/L

Well Development Log

SITE NAME: Southeast Rockford, Area 11

DATE: 5-20-19

WELL #: MW0043

TIME: 16:20

DEPTH OF PUMP:

WEATHER CONDITIONS: overcast, chilly

SAMPLERS: Andy + Tim

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					7.92	1.00	0	0	14.47	126
5					7.39	1.11	877	0	14.56	139
10					7.31	1.13	599	0	14.23	142
15					7.23	1.18	500	0	13.93	146
20					7.20	1.20	218	0	13.69	151
25					7.37	1.20	150	0	13.63	145
30					7.29	1.20	131	0	13.38	151
35					7.25	1.20	109	0	13.35	151
40					7.25	1.20	109	0	13.37	153
45					7.24	1.20	93.7	0	13.42	130
50										
55										

* turbidity very high originally, let water run outside of the horiba for turbidity to decrease

Sample @ 1713

* no Fe sample available

Well Development Log

SITE NAME: Southeast Rockford, Area 11

DATE: 5-20-19 WELL #: MW005

TIME: 12:05 DEPTH OF PUMP:

WEATHER CONDITIONS: cloudy, cool SAMPLERS: Andy + Tim

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					9.02	1.44	605	2.66	14.99	-5
5										
10					Low Power, turned off pump					
~~15~~ 0					8.57	1.48	442	3.68	15.18	-98
~~20~~ 5					7.39	1.49	369	2.23	15.06	101
~~25~~ 10					7.32	1.48	281	1.99	15.66	106
~~30~~ 15					7.32	1.49	190	2.90	17.12	110
~~35~~ 20					7.29	1.49	154	2.56	16.93	113
~~40~~ 25					7.28	1.49	129	2.43	15.76	118
~~45~~ 30					7.27	1.48	115	2.02	15.29	123
~~50~~ 35					7.25	1.48	103	1.84	15.22	128
~~55~~ 40					7.22	1.48	93.6	2.19	15.05	131
45					7.19	1.48	88.7	2.02	15.92	130
50					7.18	1.48	83.1	1.86	15.23	133
55										

Sample @ ~~13:53~~ 13:43

Fe → 0.29 mg/L

Well Development Log

SITE NAME: Southeast Rockford, Area 11

DATE: 5/20/14

WELL #: MW006

TIME: 10:50

DEPTH OF PUMP:

WEATHER CONDITIONS: Sunny, partly cloudy,

SAMPLERS: Andy + Tim

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					4.46	1.09	70.6	0.14	16.33	191
5					6.33	1.16	78.6	0	15.42	-14
10					6.54	1.15	58.1	0	15.30	-49
15					6.74	1.15	38.2	0	15.28	-73
20					6.60	1.14	21.3	0	15.14	-72
25					6.84	1.14	11.9	0	14.86	-89
30					6.87	1.13	5.7	0	14.74	-94
35										
40										
45										
50										
55										

* MW6 needs new bolts

Sample @ 11:27

Fe → 3.3 mg/L (Ferrous Iron)

Well Development Log

SITE NAME: Southeast Rockford, Area 11

DATE: 5-21-19

WELL #: MW007

TIME: 933

DEPTH OF PUMP:

WEATHER CONDITIONS: overcast, windy, misty

SAMPLERS: Andy + Tim

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					7.45	1.37	726	0	12.95	-14
5					6.96	1.37	300	0	14.12	-55
10					6.93	1.37	238	0	13.88	-68
15					6.93	1.37	206	0	13.67	-73
20					6.93	1.36	170	0	13.80	-77
25					6.91	1.37	149	0	14.07	-79
30					6.93	1.38	136	0	14.22	-81
35					6.93	1.39	128	0	14.44	-84
40					6.92	1.39	132	0	14.21	-84
45					6.92	1.40	122	0	14.34	-85
50					6.29	1.41	109	0	14.43	-86
55										

Sample @ 1025

Fe → 3.3 mg/L

November 2019 Groundwater Sampling Sheets

Well Development Log

SITE NAME: Southeast Rockford, Area 7

DATE: 11-12-19 **WELL #:** MW006

TIME: 0832 **DEPTH OF PUMP:**

WEATHER CONDITIONS: Cold, clear skies, 20's **SAMPLERS:** Andy + Tim Alston

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°) (°F)	REDOX POTENTIAL mV (+/- 10 mv)
0					5.78	1.13	45.4	13.20	49.5	21
5					6.07	1.21	52.5	9.73	51.6	-58
10					6.19	1.19	40.9	8.14	52.5	-71
15					6.27	1.23	23.6	7.67	50.9	-74
20					6.30	1.23	13.6	6.90	51.1	-76
25					6.32	1.23	11.1	6.33	51.4	-77
30					6.33	1.22	9.2	5.65	51.8	-78
35					6.33	1.22	7.9	5.25	51.7	-78

Sample 0910 Fe → 1.55 mg/L

Well Development Log

SITE NAME: Southeast Rockford, Area 7

DATE: 11-12-19

WELL #: MW005

TIME: 1010

DEPTH OF PUMP:

WEATHER CONDITIONS: Cold, clear skies, 20s

SAMPLERS: Tim Alston + Andy

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					6.77	1.02	360	6.89	46.3	200
5					6.63	1.40	498	7.33	48.6	119
10					6.61	1.42	392	7.26	49.9	132
15					6.60	1.43	212	7.37	50.1	137
20					6.60	1.45	87.9	7.47	50.3	143
25					6.59	1.46	55.1	7.56	49.6	146
30					6.58	1.47	34.6	7.59	50.1	148
35					6.57	1.47	21.0	7.61	49.8	152
40					6.57	1.47	17.8	7.58	50.8	154
45					6.57	1.47	13.1	7.62	50.9	156
50					6.57	1.47	11.8	7.63	51.0	158
55					6.57	1.47	9.0	7.71	50.3	160

Sample @ 1115

Fe → 0

Well Development Log

SITE NAME: Southeast Rockford, Area 7

DATE: 11-12-19 **WELL #:** MW001

TIME: 1245 **DEPTH OF PUMP:**

WEATHER CONDITIONS: Cold, clear skies, 20s **SAMPLERS:** Tim Alston + Andy Schanbe

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					6.97	1.33	72.5	8.10	50.6	191
5					6.88	1.35	244	7.37	52.1	174
10					6.85	1.35	223	7.34	51.7	173
15					6.85	1.35	208	7.31	51.0	173
20					6.77	1.38	164	7.56	50.6	188
25					6.83	1.35	80.6	7.99	52.1	178
30					6.82	1.36	54.9	8.31	52.7	180
35					6.83	1.36	43.8	8.43	51.8	183
40					6.77	1.37	22.7	8.56	52.4	189
45					6.74	1.38	23.8	8.34	51.4	192
50					6.74	1.36	5.7	7.49	53.6	194
55										

Sample @ 1345 FR → 0.19 ml/L

Well Development Log

SITE NAME: Southeast Rockford, Area 7

DATE: 11-12-19

WELL #: MW004B

TIME: ~~1438~~ 1442

DEPTH OF PUMP:

WEATHER CONDITIONS:

SAMPLERS: Tim Alston + Andy Schenser

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					6.84	1.23	0	4.34	44.3	205
5					6.78	1.23	0	4.26	45.6	172
10					6.72	1.23	960	4.33	47.0	147
15					6.68	1.23	400	4.33	46.8	158
20					6.68	1.22	253	4.29	44.1	161
25					6.65	1.26	200	4.32	45.2	157
30					6.63	1.32	80.1	4.45	42.5	163
35					6.60	1.27	42.5	4.59	42.8	176
40					6.59	1.26	31.9	4.50	46.2	180
45					6.57	1.25	19.3	4.52	47.5	194
50					6.58	1.25	16.4	4.54	45.9	189

Sample @ 1535 Fe → 0.39 mg/L

* Very murky initially
* turbidity reading may not be accurate

Well Development Log

SITE NAME: Southeast Rockford, Area 7

DATE: 11-13-19

WELL #: MW002

TIME: 1112

DEPTH OF PUMP:

WEATHER CONDITIONS: Cold, partly sunny, 20's

SAMPLERS: Tim Alston + Andy Schmeder

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					6.34	1.35	76.2	2.27	49.6	-67
5					6.27	1.36	93.8	1.05	50.2	-74
10					6.23	1.36	76.7	0.78	51.5	-80
15					6.22	1.36	74.9	0.64	51.7	-85
20					6.22	1.36	60.2	0.56	51.9	-88
25					6.21	1.36	47.1	0.50	52.2	-90
30					6.21	1.36	41.2	0.46	51.8	-90
35					6.21	1.37	33.5	0.49	51.5	-92
40					6.21	1.38	25.4	0.46	52.5	-93
45					6.21	1.36	19.0	0.41	52.6	-94
50					6.21	1.37	16.0	0.41	52.1	-95
55					6.21	1.37	13.2	0.41	52.1	-96
60					6.20	1.37	12.7	0.40	52.1	-96

Sample @ 1215

Fe → 1.57 mg/L

Well Development Log

SITE NAME: Southeast Rockford, Area 7

DATE: 11-13-19

WELL #: MW007

TIME: 0950

DEPTH OF PUMP:

WEATHER CONDITIONS: Cold, overcast, 10's

SAMPLERS: Tim Alston & Andy Schanber

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					6.04	1.58	60.0	0.58	51.8	-54
5					5.88	1.60	43.0	0.47	52.4	-64
10					5.89	1.67	31.5	0.45	50.8	-70
15					5.93	1.67	19.7	0.45	50.8	-76
20					5.98	1.66	16.2	0.46	50.2	-81
25					6.04	1.65	12.1	0.44	49.7	-82
30					6.08	1.67	7.7	0.45	50.0	-93
35					6.07	1.66	7.5	0.41	51.1	-95

Sample @ 1030

Fe → 1.24 mg/L

Well Development Log

SITE NAME: Southeast Rockford, Area 7

DATE: 11-13-19

WELL #: MW003

TIME: 0615

DEPTH OF PUMP:

WEATHER CONDITIONS: Cold, 10's, overcast

SAMPLERS: Tim Alston + Andy Schamber

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					5.42	1.32	234	1.96	47.4	13
5					5.75	1.35	197	1.35	48.8	-61
10					5.88	1.36	189	1.23	48.5	-77
15					5.95	1.37	172	1.09	48.5	-85
20					6.00	1.36	109	0.91	51.1	-93
25					6.03	1.37	81.6	0.85	50.4	-96
30					6.05	1.37	53.3	0.77	50.5	-99
35					6.06	1.38	41.4	0.71	~~41.7~~ 50.6	-100
40					6.05	1.33	11.2	0.61	53.7	-102
45					6.06	1.34	6.4	0.60	53.0	-103
50					6.07	1.36	3.2	0.56	53.3	-104
55										

Fe-7 1.67 mg/L

Sample @ 910

Well Development Log

SITE NAME: Southeast Rockford, Area 7

DATE: 11-13-19

WELL #: MW04A

TIME: 1305

DEPTH OF PUMP:

WEATHER CONDITIONS: Cold, partly Sunny, 20's

SAMPLERS: Tim Alston + Andy

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					6.54	1.31	174	0.83	49.1	-109
5					6.52	1.30	49.4	0.34	52.1	-150
10					6.53	1.29	36	0.33	52.4	-157
15					6.53	1.29	23.1	0.32	52.8	-157
20					6.53	1.28	18.9	0.30	52.4	-158
25					6.52	1.28	12.4	0.30	52.6	-158
30					6.51	1.27	9.3	0.29	52.4	-158
35					6.61	1.27	7.4	0.29	52.6	-158

Sample @ 1345

Fe → 1.76 mg/L

Appendix B

Data Validation Reports and Data Packages

CDM Smith

March 2017 Data Validation Files and Data Packages

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: March 30, 2017

FROM: Timothy Prendiville, Supervisor (SR-6J)
Superfund Contract Management Section

TO: Data User: CDM Smith
Email Address: grabsjc@cdm.com

Electronic and Manual Validation for Region 5

We have reviewed the data for the following case:

SITE Name: Southeast Rockford Groundwater (IL)

Case No: 46856 MA No: N/A SDG No: E3Y43

Number and Type of Samples: 6 waters (Trace Volatiles)

Sample Numbers: E3Y43 – E3Y45, E3Y47 – E3Y49

Laboratory: Chemtech Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Case No: 46856 SDG No: E3Y43
Site Name: Southeast Rockford Groundwater (IL) Laboratory: CHM

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Six (6) HCl-preserved water samples, E3Y43 through E3Y45 and E3Y47 through E3Y49, were shipped to Chemtech Consulting Group (CHM) located in Mountainside, NJ. The samples were collected March 9-10, 2017 and received on March 11, 2017, intact and properly cooled.

All samples were analyzed for only the trace volatile analyte list according to CLP SOW SOM02.4 (October 2016). The data package was reviewed according to the January 2017 NFG for SOM02.4 (EPA-540-R-2017-002) and the ESAT Region 5 Organic CLP Validation SOP.

Sample E3Y47 was designated as the parent sample for the MS/MSD analyses.

Sample, E3Y43, was identified as a trip blank. Sample, E3Y49, was identified as a field blank. Sample E3Y45 was identified as a field duplicate of sample E3Y44.

1. PRESERVATION AND HOLDING TIMES

No problems found.

2. GAS CHROMATOGRAPH/MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

No problems found.

3. INITIAL CALIBRATION

No problems found.

4. INITIAL CALIBRATION VERIFICATION

No problems found.

5. CONTINUING CALIBRATION

No problems found.

6. BLANKS

No problems found.

7. DEUTERATED MONITORING COMPOUNDS / SURROGATES

No problems found.

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E3Y47 was designated as the parent sample for the MS/MSD analyses.

No problems found.

9. FLORISIL CARTRIDGE PERFORMANCE CHECK

Not required for these analyses.

10. CLEANUP PROCEDURES

Not required for these analyses.

11. LABORATORY CONTROL SAMPLE

Not required for these analyses.

12. INTERNAL STANDARD

No problems found.

13. TARGET ANALYTE IDENTIFICATION

No problems found.

14. REPORTED CONTRACT QUANTITATION LIMIT

The following trace volatile samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

E3Y44
trans-1,2-Dichloroethene, Toluene

E3Y45, E3Y48
trans-1,2-Dichloroethene, Toluene, m,p-Xylene

E3Y47
cis-1,2-Dichloroethene, 1,1,1-Trichloroethane, Trichloroethene

E3Y47MS, E3Y47MSD
cis-1,2-Dichloroethene, 1,1,1-Trichloroethane

15. TENTATIVELY IDENTIFIED COMPOUNDS

Sample results are identified in the separate Data Validation Report titled 'Tentatively Identified Compounds'. The manually reviewed report is titled '46856.EPW14030.E3Y43.TIC.rtf'.

16. SYSTEM PERFORMANCE

No problems found.

17. FIELD QC SAMPLES

Sample, E3Y43, was identified as a trip blank. The sample contained no target compounds (TCLs) and alkanes.

Sample, E3Y49, was identified as a field blank. The sample contained no target compounds (TCLs), one (1) Tentatively Identified Compound (TIC) and no alkanes.

Sample E3Y45 was identified as a field duplicate of sample E3Y44. Sample results and RPDs are summarized in the following table:

Sample Type:	Field Sample	Field Duplicate	
CLP Sample #:	**E3Y44**	**E3Y45**	
User Sample #:	A11-MW001-170309	A11-MW001-170309-D	
Location:	MW001	MW001	
Collection Date/Time:	3/9/2017 17:00	3/9/2017 17:00	RPDs
Units:	µg/L	µg/L	%
1,1-Dichloroethene	1.4	1.5	6.9
trans-1,2-Dichloroethene	0.14 J	0.16 J	13.3
1,1-Dichloroethane	6.2	6.9	10.7
cis-1,2-Dichloroethene	1.3	1.4	7.4
1,1,1-Trichloroethane	11	12	8.7
Trichloroethene	2.2	2.4	8.7
Toluene	0.090 J	0.10 J	10.5
Tetrachloroethene	0.81	0.89	9.4
m,p-Xylene	ND	0.11 J	200.0
# of TICs (including alkanes)	2	3	

18. OVERALL ASSESSMENT

Manual integrations were reviewed and found to be acceptable. Both ‘before’ and ‘after’ snapshots of the GC curves were provided.

The COC incorrectly identified the Case Number as 46759 (the previous January 2017 sampling event). The sample tags attached to the sample containers provided the Case Number 46856. This Case number (46856) was verified as the correct number with Region 5.

Case No: 46856 SDG No: E3Y43
Site Name: Southeast Rockford Groundwater (IL) Laboratory: CHM

Validation Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Reviewed by: Allison C Harvey / Techlaw-ESAT
Date: April 4, 2017

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y43	Lab Code: CHM

Sample Number: E3Y43	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: TB001	pH: 1.0	Sample Date: 03/10/2017	Sample Time: 10:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC	1.1	B	ug/L	1.1	B	1.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y43	Lab Code: CHM

Sample Number: E3Y44	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW001	pH: 1.0	Sample Date: 03/09/2017	Sample Time: 17:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.14	J	ug/L	0.14	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	6.2		ug/L	6.2		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.3		ug/L	1.3		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	11		ug/L	11		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	2.2		ug/L	2.2		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.090	J	ug/L	0.090	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.81		ug/L	0.81		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethene, 1-chloro-1-fluoro-	TIC	3.4	J	ug/L	3.4	J	1.0	YES	NV

Sample Summary Report

Case: 46856 **Contract: EPW14030** **SDG: E3Y43** **Lab Code: CHM**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y43	Lab Code: CHM

Sample Number: E3Y45	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW001	pH: 1.0	Sample Date: 03/09/2017	Sample Time: 17:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.5		ug/L	1.5		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.16	J	ug/L	0.16	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	6.9		ug/L	6.9		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	12		ug/L	12		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	2.4		ug/L	2.4		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.10	J	ug/L	0.10	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.89		ug/L	0.89		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.11	J	ug/L	0.11	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethane, 1-chloro-1,1-difluoro-	TIC	2.6	J	ug/L	2.6	J	1.0	YES	NV

Sample Summary Report

Case: 46856 **Contract: EPW14030** **SDG: E3Y43** **Lab Code: CHM**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Ethene, 1-chloro-1-fluoro-	TIC	1.5	J	ug/L	1.5	J	1.0	YES	NV
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y43	Lab Code: CHM

Sample Number: E3Y47	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW006	pH: 1.0	Sample Date: 03/09/2017	Sample Time: 14:55:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	1.8		ug/L	1.8		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.31	J	ug/L	0.31	J	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.60		ug/L	0.60		1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.38	J	ug/L	0.38	J	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.28	J	ug/L	0.28	J	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.75		ug/L	0.75		1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.82		ug/L	0.82		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.51		ug/L	0.51		1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y43	Lab Code: CHM

Sample Number: E3Y47MS	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 03/09/2017	Sample Time: 14:55:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Spike	5.0		ug/L	5.0		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	1.9		ug/L	1.9		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.30	J	ug/L	0.30	J	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.72		ug/L	0.72		1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.40	J	ug/L	0.40	J	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Spike	5.0		ug/L	5.0		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Spike	5.3		ug/L	5.3		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.75		ug/L	0.75		1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Spike	5.2		ug/L	5.2		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.78		ug/L	0.78		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.61		ug/L	0.61		1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Spike	5.1		ug/L	5.1		1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y43	Lab Code: CHM

Sample Number: E3Y47MSD	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 03/09/2017	Sample Time: 14:55:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Spike	5.1		ug/L	5.1		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	1.9		ug/L	1.9		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.31	J	ug/L	0.31	J	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.66		ug/L	0.66		1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.45	J	ug/L	0.45	J	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Spike	5.0		ug/L	5.0		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Spike	5.2		ug/L	5.2		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.78		ug/L	0.78		1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Spike	5.2		ug/L	5.2		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.77		ug/L	0.77		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.53		ug/L	0.53		1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Spike	5.2		ug/L	5.2		1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y43	Lab Code: CHM

Sample Number: E3Y48	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW004B	pH: 1.0	Sample Date: 03/10/2017	Sample Time: 11:35:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.8		ug/L	1.8		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.23	J	ug/L	0.23	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	10		ug/L	10		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2.1		ug/L	2.1		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	12		ug/L	12		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	2.0		ug/L	2.0		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.10	J	ug/L	0.10	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.55		ug/L	0.55		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.11	J	ug/L	0.11	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethene, 1-chloro-1-fluoro-	TIC	2.3	J	ug/L	2.3	J	1.0	YES	NV

Sample Summary Report

Case: 46856 **Contract: EPW14030** **SDG: E3Y43** **Lab Code: CHM**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y43	Lab Code: CHM

Sample Number: E3Y49	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: FB001	pH: 1.0	Sample Date: 03/10/2017	Sample Time: 11:50:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
unknown-01	TIC	0.78	J	ug/L	0.78	J	1.0	YES	NV

Sample Summary Report

Case: 46856 **Contract: EPW14030** **SDG: E3Y43** **Lab Code: CHM**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y43	Lab Code: CHM

Sample Number: VBLK53	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y43	Lab Code: CHM

Sample Number: VBLK54	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y43	Lab Code: CHM

Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.3	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: March 30, 2017

FROM: Timothy Prendiville, Supervisor (SR-6J)
Superfund Contract Management Section

TO: Data User: CDM Smith
Email Address: grabsjc@cdm.com

Electronic and Manual Validation for Region 5

We have reviewed the data for the following case:

SITE Name: Southeast Rockford Groundwater (IL)

Case No: 46856 MA No: N/A SDG No: E3Y50

Number and Type of Samples: 3 waters (Low/Medium Volatiles)

Sample Numbers: E3Y50 – E3Y52

Laboratory: Chemtech Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Case No: 46856 SDG No: E3Y50
Site Name: Southeast Rockford Groundwater (IL) Laboratory: CHM

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Three (3) HCl-preserved water samples, E3Y50 through E3Y52, were shipped to Chemtech Consulting Group (CHM) located in Mountainside, NJ. The samples were collected March 10, 2017 and received on March 11, 2017, intact and properly cooled.

All samples were analyzed for only the low/medium level volatile analyte list according to CLP SOW SOM02.4 (October 2016). The data package was reviewed according to the January 2017 NFG for SOM02.4 (EPA-540-R-2017-002) and the ESAT Region 5 Organic CLP Validation SOP.

Sample E3Y50 was designated as the parent sample for the MS/MSD analyses.

No samples were identified as trip blanks, field blanks, or field duplicates.

1. PRESERVATION AND HOLDING TIMES

No problems found.

2. GAS CHROMATOGRAPH/MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

No problems found.

3. INITIAL CALIBRATION

The following low/medium volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detects are not qualified. Non-detects are not qualified.

E3Y50, E3Y50DL, E3Y50MS, E3Y50MSD, E3Y51, E3Y52, E3Y52DL, VBLK60, VBLK61, VHBLK01
trans-1,3-Dichloropropene-d_4

4. INITIAL CALIBRATION VERIFICATION

The following low/medium volatile samples are associated with an ICV with DMC RRF exceeding criteria. Detects are not qualified. Non-detects are not qualified.

E3Y50, E3Y50DL, E3Y50MS, E3Y50MSD, E3Y51, E3Y52, E3Y52DL, VBLK60, VBLK61, VHBLK01
trans-1,3-Dichloropropene-d_4

5. CONTINUING CALIBRATION

The following low/medium volatile samples are associated with an opening or closing CCV with DMC RRF exceeding criteria. Detects are not qualified. Non-detects are not qualified.

E3Y50, E3Y50DL, E3Y50MS, E3Y50MSD, E3Y51, E3Y52, E3Y52DL, VBLK60, VBLK61, VHBLK01
trans-1,3-Dichloropropene-d_4

6. BLANKS

The following low/medium volatile samples were analyzed after a highly contaminated sample and have no preceding instrument blank. Detects are not qualified. Non-detects are not qualified.

E3Y50MS, E3Y50MSD
Toluene

7. DEUTERATED MONITORING COMPOUNDS / SURROGATES

The following low/medium volatile samples have DMC/surrogate recoveries less than the primary minimum criteria but greater than or equal to the expanded minimum criteria. No detects were found in the samples. Non-detects are qualified as estimated UJ. Only the Toluene results from E3Y52DL are reflected in the Final EXES Sample Summary.

E3Y50, E3Y52, E3Y52DL
1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E3Y50 was designated as the parent sample for the MS/MSD analyses.

The following low/medium volatile matrix spike/matrix spike duplicate samples have percent recoveries less than the primary minimum criteria. Detects in the original unspiked samples, E3Y50 and E3Y50DL, are qualified as estimated J.

E3Y50MSD
Toluene

The relative percent difference (RPD) between the following low/medium level volatile matrix spike and matrix spike duplicate recoveries are outside criteria. Detects in the original unspiked samples, E3Y50 and E3Y50DL, are qualified as estimated J. Non-detects in the original unspiked samples, E3Y50 and E3Y50DL, are not qualified.

E3Y50MS, E3Y50MSD
1,1-Dichloroethene, Benzene, Trichloroethene, Toluene, Chlorobenzene

9. FLORISIL CARTRIDGE PERFORMANCE CHECK

Not required for these analyses.

10. CLEANUP PROCEDURES

Not required for these analyses.

11. LABORATORY CONTROL SAMPLE

Not required for these analyses.

12. INTERNAL STANDARD

No problems found.

13. TARGET ANALYTE IDENTIFICATION

The following low/medium level volatile samples have analyte results greater than the upper limit of calibration range and proper dilution is performed. Detects are reported from the diluted analysis.

E3Y50, E3Y52
Toluene

The following low/medium level volatile samples have analyte results greater than the upper limit of calibration range and proper dilution is not performed. Detects are qualified as estimated J.

E3Y50MS, E3Y50MSD
Toluene

14. REPORTED CONTRACT QUANTITATION LIMIT

The following low/medium level volatile samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J. Only the Toluene results from E3Y50DL are reflected in the Final EXES Sample Summary.

E3Y50, E3Y50MS, E3Y50MSD
Methylcyclohexane

E3Y50DL
Ethylbenzene, o-Xylene

E3Y51
Toluene

E3Y52
o-Xylene

15. TENTATIVELY IDENTIFIED COMPOUNDS

Sample results are identified in the separate Data Validation Report titled ‘Tentatively Identified Compounds’. The manually reviewed report is titled ‘46856.EPW14030.E3Y50.TIC.rtf’.

16. SYSTEM PERFORMANCE

No problems found.

17. FIELD QC SAMPLES

No samples were identified as trip blanks, field blanks, or field duplicates.

18. OVERALL ASSESSMENT

Manual integrations were reviewed and found to be acceptable. Both 'before' and 'after' snapshots of the GC curves were provided.

The COC incorrectly identified the Case Number as 46759 (the previous January 2017 sampling event). The sample tags attached to the sample containers provided the Case Number 46856. This Case number (46856) was verified as the correct number with Region 5.

For the following samples, EXES neglected to qualify the TICs with a greater than 85% probability match as "tentatively identified", NJ even though the laboratory had them properly qualified. The qualifier flags were corrected by the reviewer. Copies of the GC/MS scans are included with the hardcopy and .pdf files.

E3Y50, E3Y51

Case No: 46856 SDG No: E3Y50
Site Name: Southeast Rockford Groundwater (IL) Laboratory: CHM

Validation Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Reviewed by: Allison C Harvey / Techlaw-ESAT
Date: April 18, 2017

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y50	Lab Code: CHM

Sample Number: E3Y50	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: MW002	pH: 1.0	Sample Date: 03/10/2017	Sample Time: 14:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Chloromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Vinyl chloride	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Bromomethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Chloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Trichlorofluoromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1-Dichloroethene	Target	1000	UJ	ug/L	1000	U	200.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Acetone	Target	2000	U	ug/L	2000	U	200.0	YES	S3VE
Carbon disulfide	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Methyl Acetate	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Methylene chloride	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
trans-1,2-Dichloroethene	Target	1000	UJ	ug/L	1000	U	200.0	YES	S3VE
Methyl tert-butyl Ether	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1-Dichloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1000	UJ	ug/L	1000	U	200.0	YES	S3VE
2-Butanone	Target	2000	U	ug/L	2000	U	200.0	YES	S3VE
Bromochloromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Chloroform	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1,1-Trichloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Cyclohexane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Carbon tetrachloride	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Benzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2-Dichloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Trichloroethene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Methylcyclohexane	Target	530	J	ug/L	530	J	200.0	YES	S3VE
1,2-Dichloropropane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Bromodichloromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
cis-1,3-Dichloropropene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
4-Methyl-2-pentanone	Target	2000	U	ug/L	2000	U	200.0	YES	S3VE
Toluene	Target	220000	J	ug/L	220000	D	2000.0	YES	S3VE
trans-1,3-Dichloropropene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1,2-Trichloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Tetrachloroethene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
2-Hexanone	Target	2000	U	ug/L	2000	U	200.0	YES	S3VE
Dibromochloromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2-Dibromoethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Chlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Ethylbenzene	Target	4100		ug/L	4100		200.0	YES	S3VE
o-xylene	Target	3800		ug/L	3800		200.0	YES	S3VE
m,p-Xylene	Target	14000		ug/L	14000		200.0	YES	S3VE
Styrene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Bromoform	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Isopropylbenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,3-Dichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,4-Dichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2-Dichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2,4-trichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Mesitylene	TIC	590	NJ	ug/L	590	J	200.0	YES	NV
Total Alkanes	TIC			ug/L			200.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y50	Lab Code: CHM

Sample Number: E3Y50MS	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 03/10/2017	Sample Time: 14:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Chloromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Vinyl chloride	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Bromomethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Chloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Trichlorofluoromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1-Dichloroethene	Spike	7500		ug/L	7500		200.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Acetone	Target	2000	U	ug/L	2000	U	200.0	YES	S3VE
Carbon disulfide	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Methyl Acetate	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Methylene chloride	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
trans-1,2-Dichloroethene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Methyl tert-butyl Ether	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1-Dichloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
2-Butanone	Target	2000	U	ug/L	2000	U	200.0	YES	S3VE
Bromochloromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Chloroform	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1,1-Trichloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Cyclohexane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Carbon tetrachloride	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Benzene	Spike	8000		ug/L	8000		200.0	YES	S3VE
1,2-Dichloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Trichloroethene	Spike	7400		ug/L	7400		200.0	YES	S3VE
Methylcyclohexane	Target	580	J	ug/L	580	J	200.0	YES	S3VE
1,2-Dichloropropane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Bromodichloromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
cis-1,3-Dichloropropene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
4-Methyl-2-pentanone	Target	2000	U	ug/L	2000	U	200.0	YES	S3VE
Toluene	Spike	230000	J	ug/L	230000	E	200.0	YES	S3VE
trans-1,3-Dichloropropene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1,2-Trichloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Tetrachloroethene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
2-Hexanone	Target	2000	U	ug/L	2000	U	200.0	YES	S3VE
Dibromochloromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2-Dibromoethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Chlorobenzene	Spike	7700		ug/L	7700		200.0	YES	S3VE
Ethylbenzene	Target	4800		ug/L	4800		200.0	YES	S3VE
o-xylene	Target	4500		ug/L	4500		200.0	YES	S3VE
m,p-Xylene	Target	17000		ug/L	17000		200.0	YES	S3VE
Styrene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Bromoform	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Isopropylbenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,3-Dichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,4-Dichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2-Dichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2,4-trichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Total Alkanes	TIC			ug/L			200.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y50	Lab Code: CHM

Sample Number: E3Y50MSD	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 03/10/2017	Sample Time: 14:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Chloromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Vinyl chloride	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Bromomethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Chloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Trichlorofluoromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1-Dichloroethene	Spike	9100		ug/L	9100		200.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Acetone	Target	2000	U	ug/L	2000	U	200.0	YES	S3VE
Carbon disulfide	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Methyl Acetate	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Methylene chloride	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
trans-1,2-Dichloroethene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Methyl tert-butyl Ether	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1-Dichloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
2-Butanone	Target	2000	U	ug/L	2000	U	200.0	YES	S3VE
Bromochloromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Chloroform	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1,1-Trichloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Cyclohexane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Carbon tetrachloride	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Benzene	Spike	10000		ug/L	10000		200.0	YES	S3VE
1,2-Dichloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Trichloroethene	Spike	9100		ug/L	9100		200.0	YES	S3VE
Methylcyclohexane	Target	510	J	ug/L	510	J	200.0	YES	S3VE
1,2-Dichloropropane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Bromodichloromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
cis-1,3-Dichloropropene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
4-Methyl-2-pentanone	Target	2000	U	ug/L	2000	U	200.0	YES	S3VE
Toluene	Spike	210000	J	ug/L	210000	E	200.0	YES	S3VE
trans-1,3-Dichloropropene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1,2-Trichloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Tetrachloroethene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
2-Hexanone	Target	2000	U	ug/L	2000	U	200.0	YES	S3VE
Dibromochloromethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2-Dibromoethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Chlorobenzene	Spike	9600		ug/L	9600		200.0	YES	S3VE
Ethylbenzene	Target	4200		ug/L	4200		200.0	YES	S3VE
o-xylene	Target	3800		ug/L	3800		200.0	YES	S3VE
m,p-Xylene	Target	14000		ug/L	14000		200.0	YES	S3VE
Styrene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Bromoform	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Isopropylbenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,3-Dichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,4-Dichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2-Dichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2,4-trichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	1000	U	ug/L	1000	U	200.0	YES	S3VE
Total Alkanes	TIC			ug/L			200.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y50	Lab Code: CHM

Sample Number: E3Y51	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: MW003	pH: 1.0	Sample Date: 03/10/2017	Sample Time: 12:50:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Vinyl chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromomethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichlorofluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Acetone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Carbon disulfide	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl Acetate	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylene chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
trans-1,2-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl tert-butyl Ether	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,2-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Butanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Bromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,1-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Cyclohexane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Carbon tetrachloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Benzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylcyclohexane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromodichloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
4-Methyl-2-pentanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Toluene	Target	190	J	ug/L	190	J	50.0	YES	S3VE
trans-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Tetrachloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Hexanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Dibromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromoethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Ethylbenzene	Target	450		ug/L	450		50.0	YES	S3VE
o-xylene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
m,p-Xylene	Target	4900		ug/L	4900		50.0	YES	S3VE
Styrene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromoform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Isopropylbenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,3-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,4-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,4-trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Benzene, 1,2,3-trimethyl-	TIC	240	NJ	ug/L	240	J	50.0	YES	NV

Sample Summary Report

Case: 46856 **Contract: EPW14030** **SDG: E3Y50** **Lab Code: CHM**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1-ethyl-2-methyl-	TIC	140	NJ	ug/L	140	J	50.0	YES	NV
Benzene, 1,2,4-trimethyl-	TIC	130	NJ	ug/L	130	J	50.0	YES	NV
Total Alkanes	TIC			ug/L			50.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y50	Lab Code: CHM

Sample Number: E3Y52	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: MW004A	pH: 1.0	Sample Date: 03/10/2017	Sample Time: 15:15:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Vinyl chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromomethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichlorofluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethene	Target	250	UJ	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Acetone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Carbon disulfide	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl Acetate	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylene chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
trans-1,2-Dichloroethene	Target	250	UJ	ug/L	250	U	50.0	YES	S3VE
Methyl tert-butyl Ether	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,2-Dichloroethene	Target	250	UJ	ug/L	250	U	50.0	YES	S3VE
2-Butanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Bromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,1-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Cyclohexane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Carbon tetrachloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Benzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylcyclohexane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromodichloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
4-Methyl-2-pentanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Toluene	Target	79000		ug/L	79000	D	1000.0	YES	S3VE
trans-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Tetrachloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Hexanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Dibromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromoethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Ethylbenzene	Target	320		ug/L	320		50.0	YES	S3VE
o-xylene	Target	99	J	ug/L	99	J	50.0	YES	S3VE
m,p-Xylene	Target	440		ug/L	440		50.0	YES	S3VE
Styrene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromoform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Isopropylbenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,3-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,4-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,4-trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Total Alkanes	TIC			ug/L			50.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y50	Lab Code: CHM

Sample Number: VBLK60	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y50	Lab Code: CHM

Sample Number: VBLK61	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Case: 46856	Contract: EPW14030	SDG: E3Y50	Lab Code: CHM

Sample Number: VHBLK01	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.6	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Southeast Rockford Area 11 - Semi Annual 2018 Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 17030290
Laboratory: STAT Analysis Corporation and TestAmerica Laboratories, Inc.

Matrix: Groundwater
Collection date: 03/9/2017 & 03/10/2017
Analysis/Methods:

Dissolved Gases in Water (Methane) - Method RSKSOP-175
Nitrate and Nitrite (Nitrogen, Nitrate-Nitrite) - Method M4500-NO3F
Sulfate in Water (Sulfate) - Method M4500SO4, E
Alkalinity (Alkalinity, Total (As CaCO3) - Method E310.1

Samples in SDG:

STAT Lab ID	Test America Lab ID	Sample Number
17030290-001	490-123890-1	A11-MW006-170309
17030290-002	490-123890-2	A11-MW001-170309-D
17030290-003	490-123890-3	A11-MW004B-170310
17030290-004	490-123890-4	A11-MW003-170310
17030290-005	490-123890-5	A11-MW001-170309
17030290-006	490-123890-6	A11-MW002-170310
17030290-007	490-123890-7	A11-MW004A-170310

Data validation was performed in accordance with the specific analytical methods, National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017) and National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?	**Yes**		
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)	**Yes**		
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	17030290-005	**17030290-002**			
	A11-MW001-170309	**A11-MW001-170309-D**			
			Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate				
17030290-001CMS/CMSD	Acceptable	20%		
17030290-001BMS/CMSD	Acceptable	20%		
Sulfate				
17030290-001BMS/CMSD	Acceptable	20%		
Alkalinity	Acceptable	20%		
17030290-003BMS/MSD				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes No N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**Yes**
Laboratory Control Sample criteria met?	**Yes**
Were the Laboratory Method Blank results all < RL?	**No**
Were the Field Blanks results all < RL?	**N/A**
Was the ICAL criteria met?	**Yes**
Was the CCV criteria met?	**Yes**
Was the Tuning criteria met?	**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?	**N/A**
Were the Internal Standard areas within ± 50 - 150%?	**N/A**

Comments (note deviations):

Blanks		**Concentration (mg/L)**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate					
N2N3MWB1		Nondetect			
N2MWB1		Nondetect			
Sulfate					
SO4MBW1		0.706	0.7 / 5	None	Sample results > RL
Alkalinity					
ALKMBW1		Nondetect			

ICB/CCB		**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
ICB	Nitrogen, Nitrate	-0.01304	0.039 / 0.2	None	- Blank result > - PQL
ICB	Nitrogen, Nitrate	Nondetect			
ICB	Sulfate	0.706	0.7 / 5	None	Sample results > RL
CCB	Nitrogen, Nitrate	-0.01682	0.039 / 0.2	None	- Blank result > - PQL
CCB	Nitrogen, Nitrate	Nondetect			
CCB	Sulfate	0.706	0.7 / 5	None	Sample results > RL

Field Blank	**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
N/A				

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate				
17030290-001CMS/CMSD	Acceptable	75-125		
17030290-001BMS/CMSD	Acceptable	75-125		
Sulfate				
17030290-001BMS/CMSD	Acceptable	75-125		
Alkalinity				
17030290-003BMS/MSD	Acceptable	75-125		

LCS/LCSD	**%R**	**Limits**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate				
N2N3LCSW1	Acceptable	80-120		
N2LCSW1	Acceptable	80-120		
Sulfate				
SO4LCSW1	Acceptable	80-120		
Alkalinity				
ALKLCSW1	Acceptable	80-120		

ICV		%R	Limits	Qualifiers	Associated Samples
March 17 - 09:03	Nitrogen, Nitrate	Acceptable			
March 17 - 10:00	Nitrogen, Nitrate	Acceptable			
March 21 - 0:00	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
March 17 - 09:36	Nitrogen, Nitrate	Acceptable			
March 17 - 10:25	Nitrogen, Nitrate	Acceptable			
March 21 - 0:00	Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Methane (RSK-175)

Precision:

	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?	Yes		
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)		No	
Laboratory Control Spike Duplicates RPD within limits?			N/A
Laboratory Duplicate RPDs within limits?			N/A

Comments (note deviations):

Field Duplicates	Sample	Duplicate	%RPD	Qualifiers	Associated Samples
	17030290-005	17030290-002			
	A11-MW001-170309	A11-MW001-170309-D			
			Acceptable		

MS/MSD	%RPD	Limit	Qualifiers	Associated Samples
Methane				
490-123900-F-6 MS/MSD	46%	30%	J	Qualification required for original sample - original sample not project related - no qualification required

LCS/LCSD	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:

	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)		No	
Laboratory Control Sample criteria met?	Yes		
Were the Laboratory Method Blank results all < RL?	Yes		
Were the Field Blanks results all < RL?			N/A
Was the ICAL criteria met?	Yes		
Was the CCV criteria met?	Yes		
Was the Tuning criteria met?			N/A
Were the Surrogate % recoveries within laboratory determined control limits?	Yes		
Were the Internal Standard areas within ± 50 - 150%?			N/A

Comments (note deviations):

Blanks	Concentration (mg/L)	MDL /PQL	Qualifiers	Associated Samples
Methane				
MB 490-415176/5	Nondetect			

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
Methane	Acceptable			

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
Methane				
490-123900-F-6 MS/MSD	33 / 3	80-120	J/R	Qualification required for original sample - original sample not project related - no qualification required

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Methane	Acceptable	70-130		
LCS 490-415176/6				

ICAL	RRF	%RSD	Qualifiers	Associated Samples
February 20 - 10:41	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
March 17 - 9:14	Acceptable	Acceptable			
March 17 - 10:59	Acceptable	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes No N/A
Were sampling procedures and design criteria met?	Yes
Were holding times met?	No
Was preservation criteria met? (0° C - 6° C)	Yes
Were Chain-of-Custody records complete and provided in data package?	Yes

Comments (note deviations): The cooler temperatures were 3.9 and 0.3 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Analysis	HT Criteria	Qualifier	Associated Samples
	Nitrogen, Nitrate	5 /6 days	48 hours	J-/R**	All samples

**Two samples (17030290-004 & 17030290-006) were rejected due to holding time criteria.

Comparability:	Yes No N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes

Comments (note deviations):

Completeness (90%):	Yes No N/A
Are all data in this SDG usable?	No

Comments (note deviations):

Sensitivity:	Yes No N/A
Are MDLs present and reported?	Yes
Do the reporting limits meet project requirements?	Yes

Comments (note deviations):

Comment:

Data is usable with appropriate qualifiers applied except for two nitrate results that were rejected.

Data Validator: Kristine Molloy Date: 5/8/2019

Data Reviewer: Cherie Zakowski Date: 5/10/2019

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 24, 2017
Date Printed: March 24, 2017

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 1681-115165, SE Rockford Area 11, SE Rockford, IL **Work Order:** 17030290 Revision 0

Lab ID: 17030290-001 **Collection Date:** 3/9/2017 2:55:00 PM
Client Sample ID: A11-MW-006-170309 **Matrix:** Aqueous

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water		**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.18	0.0050	0.0017	*	mg/L	1	3/17/2017
Nitrates		**4500NO3,F**			Prep Date: **3/17/2017**		Analyst: **MD**
Nitrogen, Nitrate (As N)	2.1	0.20	0.039	H*	mg/L	1	3/17/2017
Sulfate in Water		**M4500SO4,E**			Prep Date: **3/21/2017**		Analyst: **MD**
Sulfate	38.4	10.0	1.4	*	mg/L	2	3/21/2017
Alkalinity		**M2320 B**			Prep Date: **3/16/2017**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	340	20	2.4		mg/L CaCO3	1	3/16/2017

Lab ID: 17030290-002 **Collection Date:** 3/9/2017 5:00:00 PM
Client Sample ID: A11-MW-001-170309-D **Matrix:** Aqueous

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water		**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.0050	0.0017	*	mg/L	1	3/17/2017
Nitrates		**4500NO3,F**			Prep Date: **3/17/2017**		Analyst: **MD**
Nitrogen, Nitrate (As N)	3.0	0.20	0.039	H*	mg/L	1	3/17/2017
Sulfate in Water		**M4500SO4,E**			Prep Date: **3/21/2017**		Analyst: **MD**
Sulfate	38.4	10.0	1.4	*	mg/L	2	3/21/2017
Alkalinity		**M2320 B**			Prep Date: **3/16/2017**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	360	20	2.4		mg/L CaCO3	1	3/16/2017

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below reporting limit
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL/MDL - Reporting Limit / Method Detection Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 24, 2017
Date Printed: March 24, 2017

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 1681-115165, SE Rockford Area 11, SE Rockford, IL **Work Order:** 17030290 Revision 0

Lab ID: 17030290-003 **Collection Date:** 3/10/2017 11:35:00 AM
Client Sample ID: A11-MW-004B-170310 **Matrix:** Aqueous

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water		**RSKSOP-175**		Prep Date:			Analyst: **SUB**
Methane	ND	0.0050	0.0017	*	mg/L	1	3/17/2017
Nitrates		**4500NO3,F**		Prep Date: **3/17/2017**			Analyst: **MD**
Nitrogen, Nitrate (As N)	1.8	0.20	0.039	H*	mg/L	1	3/17/2017
Sulfate in Water		**M4500SO4,E**		Prep Date: **3/21/2017**			Analyst: **MD**
Sulfate	23.9	10.0	1.4	*	mg/L	2	3/21/2017
Alkalinity		**M2320 B**		Prep Date: **3/16/2017**			Analyst: **MD**
Alkalinity, Total (As CaCO3)	340	20	2.4		mg/L CaCO3	1	3/16/2017

Lab ID: 17030290-004 **Collection Date:** 3/10/2017 12:50:00 PM
Client Sample ID: A11-MW-003-170310 **Matrix:** Aqueous

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water		**RSKSOP-175**		Prep Date:			Analyst: **SUB**
Methane	12	0.40	0.14	*	mg/L	80	3/17/2017
Nitrates		**4500NO3,F**		Prep Date: **3/17/2017**			Analyst: **MD**
Nitrogen, Nitrate (As N)	0.082	0.20	0.039	JH*	mg/L	1	3/17/2017
Sulfate in Water		**M4500SO4,E**		Prep Date: **3/21/2017**			Analyst: **MD**
Sulfate	23.9	10.0	1.4	*	mg/L	2	3/21/2017
Alkalinity		**M2320 B**		Prep Date: **3/16/2017**			Analyst: **MD**
Alkalinity, Total (As CaCO3)	380	20	2.4		mg/L CaCO3	1	3/16/2017

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below reporting limit
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL/MDL - Reporting Limit / Method Detection Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 24, 2017
Date Printed: March 24, 2017

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 1681-115165, SE Rockford Area 11, SE Rockford, IL **Work Order:** 17030290 Revision 0

Lab ID: 17030290-005 **Collection Date:** 3/9/2017 5:00:00 PM
Client Sample ID: A11-MW-001-170309 **Matrix:** Aqueous

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water		**RSKSOP-175**		Prep Date:			Analyst: **SUB**
Methane	ND	0.0050	0.0017	*	mg/L	1	3/17/2017
Nitrates		**4500NO3,F**		Prep Date: **3/17/2017**			Analyst: **MD**
Nitrogen, Nitrate (As N)	3.0	0.20	0.039	H*	mg/L	1	3/17/2017
Sulfate in Water		**M4500SO4,E**		Prep Date: **3/21/2017**			Analyst: **MD**
Sulfate	38.4	10.0	1.4	*	mg/L	2	3/21/2017
Alkalinity		**M2320 B**		Prep Date: **3/16/2017**			Analyst: **MD**
Alkalinity, Total (As CaCO3)	370	20	2.4		mg/L CaCO3	1	3/16/2017

Lab ID: 17030290-006 **Collection Date:** 3/10/2017 2:00:00 PM
Client Sample ID: A11-MW-002-170310 **Matrix:** Aqueous

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water		**RSKSOP-175**		Prep Date:			Analyst: **SUB**
Methane	15	0.80	0.27	*	mg/L	160	3/17/2017
Nitrates		**4500NO3,F**		Prep Date: **3/17/2017**			Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	0.20	0.039	H*	mg/L	1	3/17/2017
Sulfate in Water		**M4500SO4,E**		Prep Date: **3/21/2017**			Analyst: **MD**
Sulfate	35.6	10.0	1.4	*	mg/L	2	3/21/2017
Alkalinity		**M2320 B**		Prep Date: **3/16/2017**			Analyst: **MD**
Alkalinity, Total (As CaCO3)	390	20	2.4		mg/L CaCO3	1	3/16/2017

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below reporting limit
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL/MDL - Reporting Limit / Method Detection Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 24, 2017
Date Printed: March 24, 2017

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 1681-115165, SE Rockford Area 11, SE Rockford, IL **Work Order:** 17030290 Revision 0

Lab ID: 17030290-007 **Collection Date:** 3/10/2017 3:15:00 PM
Client Sample ID: A11-MW-004A-170310 **Matrix:** Aqueous

Analyses	Result	RL	MDL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water		**RSKSOP-175**		Prep Date:			Analyst: **SUB**
Methane	0.21	0.0050	0.0017	*	mg/L	1	3/17/2017
Nitrates		**4500NO3,F**		Prep Date: **3/17/2017**			Analyst: **MD**
Nitrogen, Nitrate (As N)	1.7	0.20	0.039	H*	mg/L	1	3/17/2017
Sulfate in Water		**M4500SO4,E**		Prep Date: **3/21/2017**			Analyst: **MD**
Sulfate	93.0	20.0	2.8	*	mg/L	4	3/21/2017
Alkalinity		**M2320 B**		Prep Date: **3/16/2017**			Analyst: **MD**
Alkalinity, Total (As CaCO3)	440	20	2.4		mg/L CaCO3	1	3/16/2017

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below reporting limit
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL/MDL - Reporting Limit / Method Detection Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Client Sample Results

Client: STAT Analysis Corp
Project/Site: Methane in Water

TestAmerica Job ID: 490-123890-1

Client Sample ID: A11-MW-006-170309
Lab Sample ID: 490-123890-1
Date Collected: 03/09/17 14:55
Matrix: Water
Date Received: 03/15/17 12:16

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.18		0.0050	0.0017	mg/L			03/17/17 09:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	86		62 - 124		03/17/17 09:52	1

Client Sample ID: A11-MW-001-170309-D
Lab Sample ID: 490-123890-2
Date Collected: 03/09/17 17:00
Matrix: Water
Date Received: 03/15/17 12:16

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.0017	U	0.0050	0.0017	mg/L			03/17/17 09:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	88		62 - 124		03/17/17 09:56	1

Client Sample ID: A11-MW-004B-170310
Lab Sample ID: 490-123890-3
Date Collected: 03/10/17 11:35
Matrix: Water
Date Received: 03/15/17 12:16

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.0017	U	0.0050	0.0017	mg/L			03/17/17 10:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	84		62 - 124		03/17/17 10:00	1

Client Sample ID: A11-MW-003-170310
Lab Sample ID: 490-123890-4
Date Collected: 03/10/17 12:50
Matrix: Water
Date Received: 03/15/17 12:16

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	12		0.40	0.14	mg/L			03/17/17 10:09	80

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	90		62 - 124		03/17/17 10:06	1

Client Sample ID: A11-MW-001-170309
Lab Sample ID: 490-123890-5
Date Collected: 03/09/17 17:00
Matrix: Water
Date Received: 03/15/17 12:16

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.0017	U	0.0050	0.0017	mg/L			03/17/17 10:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	83		62 - 124		03/17/17 10:12	1

Client Sample ID: A11-MW-002-170310

Lab Sample ID: 490-123890-6

Date Collected: 03/10/17 14:00

Matrix: Water

Date Received: 03/15/17 12:16

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	15		0.80	0.27	mg/L			03/17/17 10:56	160

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*83*		*62 - 124*		*03/17/17 10:15*	*1*

Client Sample ID: A11-MW-004A-170310

Lab Sample ID: 490-123890-7

Date Collected: 03/10/17 15:15

Matrix: Water

Date Received: 03/15/17 12:16

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.21		0.0050	0.0017	mg/L			03/17/17 10:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*87*		*62 - 124*		*03/17/17 10:28*	*1*

November 2018 Data Validation Files and Data Packages

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: December 7, 2018

FROM: Timothy Prendiville, Supervisor (SR-6J)
Science and Quality Assurance Section

TO: Data User: CDM
Email Address: grabsjc@cdm.com

Electronic and Manual Validation for Region 5

We have reviewed the data for the following case:

Site Name: Southeast Rockford GW (IL)

Case No: 47972 MA No: _____ SDG No: E3YA1

Number and Type of Samples: 12 waters (low level volatiles, trace volatiles)

Sample Numbers: E3YA1 – E3YA9, E3YB0 – E3YB2

Laboratory: CHM Hrs. for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 ESAT Contracting Officer's Representative
Mail Code: SA-5J

Case No: 47972 SDG No: E3YA1
Site Name: Southeast Rockford GW (IL) Laboratory: CHM

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twelve preserved waters (E3YA1 – E3YA9 and E3YB0 – E3YB2) were shipped to Chemtech Consulting Group (CHM) located in Mountainside, NJ. The samples were collected from November 13 thru November 15, 2018 and received properly cooled and intact November 19, 2018.

Samples E3YA1, E3YA2, E3YA6, E3YA7, E3YA8, E3YA9 and E3YB2 were analyzed for the trace volatile analytes. Samples E3YA3, E3YA4, E3YA5, E3YB0 and E3YB1 were analyzed for the low level volatile target analytes. All samples were analyzed according to CLP SOW SOM02.4 (10/2016). The data package was reviewed according to the January 2017 NFG for SOM02.4 (EPA-540-R-2017-002) and the Region 5 ESAT Organic CLP Validation SOP.

E3YA8 was designated by the samplers to be used as parent samples for the trace volatile MS/MSD analyses. E3YA3 was designated by the samplers to be used as parent samples for the low level volatile MS/MSD analyses.

Sample E3YA1 was identified as the field blank. Sample E3YB2 was identified as trip blank. Samples E3YA6/ E3YA7 and E3YB0/E3YB1were identified as field duplicate pairs.

1. PRESERVATION AND HOLDING TIMES

No problems found.

2. GAS CHROMATOGRAPH/MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

No problems found.

3. INITIAL CALIBRATION

The following trace volatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Chloroform was not detected in the samples. Non-detects are not qualified.

E3YA1, E3YA2, E3YA6, E3YA7, E3YA8, E3YA8MS, E3YA8MSD, E3YA9, E3YA9DL, E3YB2, VBLK44, VBLK45, VBLK68, VHBLK01
Chloroform

The following low level volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detects are not qualified. Non-detects are not qualified.

E3YA3, E3YA3DL, E3YA3MS, E3YA3MSD, E3YA4, E3YA5, E3YB0, E3YB0DL, E3YB1, E3YB1DL, VBLK69, VHBLK02
trans-1,3-Dichloropropene-d_4

4. INITIAL CALIBRATION VERIFICATION

No problems found.

5. CONTINUING CALIBRATION

The following low level volatile samples are associated with a closing CCV with DMC RRF exceeding criteria. Detects are not qualified. Non-detects are not qualified.

E3YA3, E3YA3DL, E3YA3MS, E3YA3MSD, E3YA4, E3YA5, E3YB0, E3YB0DL, E3YB1, E3YB1DL, VBLK69, VHBLK02
trans-1,3-Dichloropropene-d_4

6. BLANKS

The following trace volatile samples have analyte results reported less than CRQLs. The associated trip/field blank results are less than CRQLs. Detects are qualified U. Sample results have been reported at CRQLs.

Acetone
E3YA9, E3YA9DL (not reported)

Toluene
E3YA8

Ethylbenzene
E3YA6, E3YA7

o-Xylene
E3YA8, E3YA8MS, E3YA8MSD

m,p-Xylene
E3YA2, E3YA8, E3YA8MS, E3YA8MSD

The following trace volatile samples have analyte results reported greater than CRQL but less than trip/field blank results. The associated trip/field blank results are greater than CRQLs. Detects are qualified U. Sample results have been reported at the trip/field blank results.

Acetone
E3YA2, E3YA8, E3YA8MS, E3YA8MSD

7. DEUTERATED MONITORING COMPOUNDS / SURROGATES

The following trace volatile samples have DMC/surrogate percent recoveries less than the primary minimum criteria but greater than or equal to the expanded minimum criteria. Detects are qualified as estimated J-. Non-detects are qualified as estimated UJ.

E3YA6, E3YA7, E3YA8, E3YA9
1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene

The following low level volatile samples have DMC/surrogate percent recoveries less than the primary minimum criteria but greater than or equal to the expanded minimum criteria. The compounds were not detected in the samples. Non-detects are qualified as estimated UJ.

E3YB0DL (not reported), E3YB1
Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

E3YA8 was designated by the samplers to be used as parent samples for the trace volatile MS/MSD analyses. E3YA3 was designated by the samplers to be used as parent samples for the low level volatile MS/MSD analyses.

The relative percent difference (RPD) between the following low level volatile matrix spike and matrix spike duplicate recoveries is outside criteria. Detected Toluene in the unspiked samples (E3YA3 and E3YA3DL) are qualified as estimated J.

E3YA3MS, E3YA3MSD
Toluene

The following low level volatile matrix spike/matrix spike duplicate samples have percent recoveries greater than the primary maximum criteria. Detected Toluene in the unspiked samples (E3YA3 and E3YA3DL) are qualified as estimated J.

E3YA3MSD
Toluene

The following low level volatile matrix spike/matrix spike duplicate samples have percent recoveries less than the expand minimum criteria. Detected Toluene in the unspiked samples (E3YA3 and E3YA3DL) are qualified as estimated J.

E3YA3MS
Toluene

9. FLORISIL CARTRIDGE PERFORMANCE CHECK

Not required for these analyses.

10. CLEANUP PROCEDURES

Not required for these analyses.

11. LABORATORY CONTROL SAMPLE

Not required for these analyses.

12. INTERNAL STANDARD

No problems found.

13. TARGET ANALYTE IDENTIFICATION

The following trace volatile samples have analyte results greater than the upper limit of calibration range. Samples were re-analyzed at dilution to bring the detections within the calibration ranges.

E3YA9
Isopropylbenzene

The following low level volatile samples have analyte results greater than the upper limit of calibration range. Samples were re-analyzed at dilution to bring the detections within the calibration ranges.

E3YA3
Toluene, m,p-Xylene

E3YB0, E3YB1
m,p-Xylene

The following low level volatile samples have analyte results greater than the upper limit of calibration range. Results are qualified J. No further dilution was performed because the samples were used for QC purpose only.

E3YA3MS
Toluene, m,p-Xylene

E3YA3MSD
Toluene

14. REPORTED CONTRACT QUANTITATION LIMIT

The following trace volatile samples have analyte results greater than or equal to method detection limit (MDL) and below contract required quantitation limit (CRQL). Detects are qualified as estimated J.

E3YA1
Toluene, Ethylbenzene, o-Xylene, m,p-Xylene

E3YA2
Trichlorofluoromethane, trans-1,2-Dichloroethene

E3YA8, E3YA8MS, E3YA8MSD
Bromodichloromethane, Tetrachloroethene

E3YA9
1,1-Dichloroethane, Tetrachloroethene

E3YB2
2-Butanone

The following low level volatile samples have analyte results greater than or equal to method detection limit (MDL) and below contract required quantitation limit (CRQL). Detects are qualified as estimated J.

E3YA3, E3YA3MS, E3YA3MSD
cis-1,2-Dichloroethene, Cyclohexane, Isopropylbenzene

E3YA3DL (not reported)
Ethylbenzene, o-Xylene

E3YA4
Toluene

E3YA5
Acetone, cis-1,2-Dichloroethene, Trichloroethene, Toluene

E3YB0
Toluene, Isopropylbenzene

E3YB1
Methylcyclohexane, Toluene, Isopropylbenzene

15. TENTATIVELY IDENTIFIED COMPOUNDS

Sample results are identified in the separate Data Validation Report titled 'Tentatively Identified Compounds'. The manually reviewed report is titled '47972 sdg E3YA1.TIC'.

16. SYSTEM PERFORMANCE

No problems found.

17. FIELD QC SAMPLES

Sample E3YA1 was identified as the field blank. Sample E3YB2 was identified as trip blank. A composite blank using the highest concentration of any detect in any of the blanks was compared to the remaining none QC samples for possible blank contamination. Detects are summarized in the following table:

QC Blanks – Trace VOA	**E3YA1** (Field blank)	**E3YB2** (Trip blank)
Sample Identifier:	A11-FB001-181113	A11-TB001-181113
Collection date/Time:	11/13/18 17:00	11/13/18 08:00
Receipt Date:	11/19/18 07:05	11/19/18 07:05
Location:	FB001	TB001
Units:	µg/L	µg/L
Acetone	9.0	**17**
Methylene chloride	ND	**1.7**
2-Butanone	ND	**2.0 J**
Toluene	**0.28 J**	ND

QC Blanks – Trace VOA	**E3YA1** (Field blank)	**E3YB2** (Trip blank)
Ethylbenzene	**0.11 J**	ND
o-Xylene	**0.11 J**	ND
m,p-Xylene	**0.41 J**	ND
Associated samples:	E3YA2, E3YA6, E3YA7, E3YA8, E3YA8MS, E3YA8MS, E3YA9	

ND = Not Detected.

Samples E3YA6/ E3YA7 and E3YB0/E3YB1were identified as field duplicate pairs. The results and RPDs for the field duplicate pairs are summarized in the following tables:

CLP Sample No.	**E3YA6** (trace VOA)	**E3YA7** (trace VOA)	
Sample Identifier:	A11-MW004B-181114	A11-MW004B-181114-D	
Location:	MW004B	MW004B	
Collection Date/Time:	11/14/18 10:30	11/14/18 10:30	RPD
Dilution factor:	5000.0	5000.0	
Units:	µg/L	µg/L	%
Toluene	48000	39000	21

ND = Not Detected.

CLP Sample No.	**E3YB0** (low level VOA)	**E3YB1** (low level VOA)	
Sample Identifier:	A11-MW007-181114	A11-MW007-181114-D	
Location:	MW007	MW007	
Collection Date/Time:	11/14/18 14:05	11/14/18 14:05	RPD
Dilution factor:	50.0	50.0	
Units:	µg/L	µg/L	%
Methylcyclohexane	ND	89 J	200
Toluene	200 J	230 J	14
Ethylbenzene	6500	6700	3.0
m,p-Xylene	14000 E	14000 E	0
Isopropylbenzene	99 J	110 J	10
TICs	1	2	
	E3YB0DL	**E3YB1DL**	
Dilution factor:	250	250	
Ethylbenzene	6100	6500	6.3
m,p-Xylene	13000	13000	0

ND = Not Detected.

18. OVERALL ASSESSMENT

Manual integrations were performed for the following samples due to a “peak integrated by software incorrectly” according to the laboratory narrative. These manual integrations were reviewed by the reviewer and appear to be acceptable without additional qualifications.

Case No: 47972 SDG No: E3YA1
Site Name: Southeast Rockford GW (IL) Laboratory: CHM

Trace Volatiles
Instrument = MSVOA_V
Column = DB-624UI
Run Batch = VV008580.D

QC Type	Analysis ID	File ID	Analysis Date	Analyte
IC	VSTD0.561	VV008580.D	11/16/2018 14:47	2-Butanone-d5
IC	VSTD0.561	VV008580.D	11/16/2018 14:47	Acetone
IC	VSTD00162	VV008581.D	11/16/2018 15:16	2-Butanone-d5
IC	VSTD00162	VV008581.D	11/16/2018 15:16	Acetone
IC	VSTD00162	VV008581.D	11/16/2018 15:16	2-Butanone

Low Level Volatile
Instrument = MSVOA_V
Column = DB-624UI
Run Batch = VV008666.D

QC Type	Analysis ID	File ID	Analysis Date	Analyte
IC	VSTD00569	VV008666.D	11/20/2018 11:21	Cyclohexane
FS	E3YA3	VV008674.D	11/20/2018 15:28	Toluene
FS	E3YA4	VV008680.D	11/20/2018 17:50	2-Butanone-d5*
MS	E3YA3MS	VV008684.D	11/20/2018 19:26	Toluene*
MSD	E3YA3MSD	VV008685.D	11/20/2018 19:49	Toluene*

***** No before and after manual integration chromatogram were submitted. No qualification was applied.

Case No: 47972 SDG No: E3YA1
Site Name: Southeast Rockford GW (IL) Laboratory: CHM

Validation Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YA1	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: FB001	pH: 1.0	Sample Date: 11/13/2018	Sample Time: 17:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	9.0		ug/L	9.0		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.28	J	ug/L	0.28	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.11	J	ug/L	0.11	J	1.0	YES	S3VE
o-xylene	Target	0.11	J	ug/L	0.11	J	1.0	YES	S3VE
m,p-xylene	Target	0.41	J	ug/L	0.41	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YA2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW001	pH: 1.0	Sample Date: 11/13/2018	Sample Time: 16:15:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.15	J	ug/L	0.15	J	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.7		ug/L	1.7		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	17	U	ug/L	7.7		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.25	J	ug/L	0.25	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	9.8		ug/L	9.8		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.7		ug/L	1.7		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	9.3		ug/L	9.3		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	3.7		ug/L	3.7		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	1.0		ug/L	1.0		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.21	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethane, 1-chloro-1,1-difluoro-	TIC	4.5	J	ug/L	4.5	J	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Isopropyl Alcohol	TIC	0.72	J	ug/L	0.72	J	1.0	YES	NV
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YA3	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: MW002	pH: 1.0	Sample Date: 11/14/2018	Sample Time: 16:20:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Vinyl chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromomethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichlorofluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Acetone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Carbon disulfide	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl Acetate	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylene chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
trans-1,2-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl tert-butyl Ether	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,2-Dichloroethene	Target	170	J	ug/L	170	J	50.0	YES	S3VE
2-Butanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Bromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,1-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Cyclohexane	Target	110	J	ug/L	110	J	50.0	YES	S3VE
Carbon tetrachloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Benzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylcyclohexane	Target	780		ug/L	780		50.0	YES	S3VE
1,2-Dichloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromodichloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
4-Methyl-2-pentanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Toluene	Target	160000	J	ug/L	160000	D	2000.0	YES	S3VE
trans-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Tetrachloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Hexanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Dibromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromoethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Ethylbenzene	Target	3300		ug/L	3300		50.0	YES	S3VE
o-xylene	Target	3300		ug/L	3300		50.0	YES	S3VE
m,p-Xylene	Target	11000		ug/L	11000	D	2000.0	YES	S3VE
Styrene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromoform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Isopropylbenzene	Target	93	J	ug/L	93	J	50.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,3-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,4-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,4-trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Benzene, propyl-	TIC	180	J	ug/L	180	J	50.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Methylal	TIC	150	J	ug/L	150	J	50.0	YES	NV
4-Heptanone, 2,6-dimethyl-	TIC	150	J	ug/L	150	J	50.0	YES	NV
Benzene, 1-ethyl-2-methyl-	TIC	220	J	ug/L	220	J	50.0	YES	NV
Total Alkanes	TIC	130	B	ug/L	130	B	50.0	YES	NV
Benzene, 1,2,3-trimethyl-	TIC	240	J	ug/L	240	J	50.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YA3MS	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 11/14/2018	Sample Time: 16:20:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Vinyl chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromomethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichlorofluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethene	Spike	2500		ug/L	2500		50.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Acetone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Carbon disulfide	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl Acetate	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylene chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
trans-1,2-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl tert-butyl Ether	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,2-Dichloroethene	Target	160	J	ug/L	160	J	50.0	YES	S3VE
2-Butanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Bromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,1-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Cyclohexane	Target	120	J	ug/L	120	J	50.0	YES	S3VE
Carbon tetrachloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Benzene	Spike	2500		ug/L	2500		50.0	YES	S3VE
1,2-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichloroethene	Spike	2400		ug/L	2400		50.0	YES	S3VE
Methylcyclohexane	Target	740		ug/L	740		50.0	YES	S3VE
1,2-Dichloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromodichloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
4-Methyl-2-pentanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Toluene	Spike	110000	J	ug/L	110000	E	50.0	YES	S3VE
trans-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Tetrachloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Hexanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Dibromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromoethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chlorobenzene	Spike	2500		ug/L	2500		50.0	YES	S3VE
Ethylbenzene	Target	3300		ug/L	3300		50.0	YES	S3VE
o-xylene	Target	3300		ug/L	3300		50.0	YES	S3VE
m,p-Xylene	Target	11000	J	ug/L	11000	E	50.0	YES	S3VE
Styrene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromoform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Isopropylbenzene	Target	94	J	ug/L	94	J	50.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,3-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,4-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,4-trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Total Alkanes	TIC			ug/L			50.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YA3MSD	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 11/14/2018	Sample Time: 16:20:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Vinyl chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromomethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichlorofluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethene	Spike	2600		ug/L	2600		50.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Acetone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Carbon disulfide	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl Acetate	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylene chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
trans-1,2-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl tert-butyl Ether	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,2-Dichloroethene	Target	150	J	ug/L	150	J	50.0	YES	S3VE
2-Butanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Bromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,1-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Cyclohexane	Target	100	J	ug/L	100	J	50.0	YES	S3VE
Carbon tetrachloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Benzene	Spike	2600		ug/L	2600		50.0	YES	S3VE
1,2-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichloroethene	Spike	2500		ug/L	2500		50.0	YES	S3VE
Methylcyclohexane	Target	700		ug/L	700		50.0	YES	S3VE
1,2-Dichloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromodichloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
4-Methyl-2-pentanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Toluene	Spike	120000	J	ug/L	120000	E	50.0	YES	S3VE
trans-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Tetrachloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Hexanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Dibromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromoethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chlorobenzene	Spike	2500		ug/L	2500		50.0	YES	S3VE
Ethylbenzene	Target	3000		ug/L	3000		50.0	YES	S3VE
o-xylene	Target	3000		ug/L	3000		50.0	YES	S3VE
m,p-Xylene	Target	9600		ug/L	9600		50.0	YES	S3VE
Styrene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromoform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Isopropylbenzene	Target	89	J	ug/L	89	J	50.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,3-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,4-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,4-trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Total Alkanes	TIC			ug/L			50.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YA4	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: MW003	pH: 1.0	Sample Date: 11/14/2018	Sample Time: 12:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Chloromethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Vinyl chloride	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Bromomethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Chloroethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Trichlorofluoromethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,1-Dichloroethene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Acetone	Target	200	U	ug/L	200	U	20.0	YES	S3VE
Carbon disulfide	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Methyl Acetate	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Methylene chloride	Target	100	U	ug/L	100	U	20.0	YES	S3VE
trans-1,2-Dichloroethene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Methyl tert-butyl Ether	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,1-Dichloroethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
cis-1,2-Dichloroethene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
2-Butanone	Target	200	U	ug/L	200	U	20.0	YES	S3VE
Bromochloromethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Chloroform	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,1,1-Trichloroethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Cyclohexane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Carbon tetrachloride	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Benzene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,2-Dichloroethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Trichloroethene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Methylcyclohexane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,2-Dichloropropane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Bromodichloromethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
cis-1,3-Dichloropropene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
4-Methyl-2-pentanone	Target	200	U	ug/L	200	U	20.0	YES	S3VE
Toluene	Target	54	J	ug/L	54	J	20.0	YES	S3VE
trans-1,3-Dichloropropene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,1,2-Trichloroethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Tetrachloroethene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
2-Hexanone	Target	200	U	ug/L	200	U	20.0	YES	S3VE
Dibromochloromethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,2-Dibromoethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Chlorobenzene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Ethylbenzene	Target	130		ug/L	130		20.0	YES	S3VE
o-xylene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
m,p-Xylene	Target	3500		ug/L	3500		20.0	YES	S3VE
Styrene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Bromoform	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Isopropylbenzene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,3-Dichlorobenzene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,4-Dichlorobenzene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,2-Dichlorobenzene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,2,4-trichlorobenzene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	100	U	ug/L	100	U	20.0	YES	S3VE
Total Alkanes	TIC			ug/L			20.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1-ethyl-3-methyl-	TIC	77	J	ug/L	77	J	20.0	YES	NV
Benzene, 1,2,3-trimethyl-	TIC	66	J	ug/L	66	J	20.0	YES	NV
Benzene, 1,2,4-trimethyl-	TIC	64	J	ug/L	64	J	20.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YA5	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: MW004A	pH: 1.0	Sample Date: 11/15/2018	Sample Time: 11:15:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	4.5	J	ug/L	4.5	J	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	11		ug/L	11		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.8	J	ug/L	1.8	J	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	8.9		ug/L	8.9		1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	1.6	J	ug/L	1.6	J	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	1.6	J	ug/L	1.6	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YA6	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW004B	pH: 1.0	Sample Date: 11/14/2018	Sample Time: 10:30:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Chloromethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Vinyl chloride	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Bromomethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Chloroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Trichlorofluoromethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,1-Dichloroethene	Target	2500	UJ	ug/L	2500	U	5000.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Acetone	Target	25000	U	ug/L	25000	U	5000.0	YES	S3VE
Carbon disulfide	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Methyl Acetate	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Methylene chloride	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
trans-1,2-Dichloroethene	Target	2500	UJ	ug/L	2500	U	5000.0	YES	S3VE
Methyl tert-butyl Ether	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,1-Dichloroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2500	UJ	ug/L	2500	U	5000.0	YES	S3VE
2-Butanone	Target	25000	U	ug/L	25000	U	5000.0	YES	S3VE
Bromochloromethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Chloroform	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,1,1-Trichloroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Cyclohexane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Carbon tetrachloride	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Benzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2-Dichloroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Trichloroethene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Methylcyclohexane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2-Dichloropropane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Bromodichloromethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
cis-1,3-Dichloropropene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
4-Methyl-2-pentanone	Target	25000	U	ug/L	25000	U	5000.0	YES	S3VE
Toluene	Target	48000		ug/L	48000		5000.0	YES	S3VE
trans-1,3-Dichloropropene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,1,2-Trichloroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Tetrachloroethene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
2-Hexanone	Target	25000	U	ug/L	25000	U	5000.0	YES	S3VE
Dibromochloromethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2-Dibromoethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Chlorobenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Ethylbenzene	Target	2500	U	ug/L	860	J	5000.0	YES	S3VE
o-xylene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
m,p-xylene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Styrene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Bromoform	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Isopropylbenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,3-Dichlorobenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,4-Dichlorobenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2-Dichlorobenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2,4-trichlorobenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Total Alkanes	TIC			ug/L			5000.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YA7	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW004B	pH: 1.0	Sample Date: 11/14/2018	Sample Time: 10:30:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Chloromethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Vinyl chloride	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Bromomethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Chloroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Trichlorofluoromethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,1-Dichloroethene	Target	2500	UJ	ug/L	2500	U	5000.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Acetone	Target	25000	U	ug/L	25000	U	5000.0	YES	S3VE
Carbon disulfide	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Methyl Acetate	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Methylene chloride	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
trans-1,2-Dichloroethene	Target	2500	UJ	ug/L	2500	U	5000.0	YES	S3VE
Methyl tert-butyl Ether	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,1-Dichloroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2500	UJ	ug/L	2500	U	5000.0	YES	S3VE
2-Butanone	Target	25000	U	ug/L	25000	U	5000.0	YES	S3VE
Bromochloromethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Chloroform	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,1,1-Trichloroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Cyclohexane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Carbon tetrachloride	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Benzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2-Dichloroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Trichloroethene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Methylcyclohexane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2-Dichloropropane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Bromodichloromethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
cis-1,3-Dichloropropene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
4-Methyl-2-pentanone	Target	25000	U	ug/L	25000	U	5000.0	YES	S3VE
Toluene	Target	39000		ug/L	39000		5000.0	YES	S3VE
trans-1,3-Dichloropropene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,1,2-Trichloroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Tetrachloroethene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
2-Hexanone	Target	25000	U	ug/L	25000	U	5000.0	YES	S3VE
Dibromochloromethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2-Dibromoethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Chlorobenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Ethylbenzene	Target	2500	U	ug/L	700	J	5000.0	YES	S3VE
o-xylene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
m,p-xylene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Styrene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Bromoform	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Isopropylbenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,3-Dichlorobenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,4-Dichlorobenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2-Dichlorobenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2,4-trichlorobenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	2500	U	ug/L	2500	U	5000.0	YES	S3VE
Total Alkanes	TIC			ug/L			5000.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YA8	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW005	pH: 1.0	Sample Date: 11/13/2018	Sample Time: 14:55:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	17	U	ug/L	7.8		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	3.8		ug/L	3.8		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.85	J-	ug/L	0.85		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	3.5		ug/L	3.5		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.12	J	ug/L	0.12	J	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.17	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.38	J	ug/L	0.38	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.16	J	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.42	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropyl Alcohol	TIC	0.69	J	ug/L	0.69	J	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YA8MS	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 11/13/2018	Sample Time: 14:55:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Spike	6.2		ug/L	6.2		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	17	U	ug/L	7.5		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	3.9		ug/L	3.9		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.99		ug/L	0.99		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	3.8		ug/L	3.8		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Spike	5.4		ug/L	5.4		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Spike	6.5		ug/L	6.5		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.13	J	ug/L	0.13	J	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Spike	5.4		ug/L	5.4		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.39	J	ug/L	0.39	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Spike	5.2		ug/L	5.2		1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.15	J	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.43	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YA8MSD	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 11/13/2018	Sample Time: 14:55:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Spike	5.8		ug/L	5.8		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	17	U	ug/L	9.3		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	3.7		ug/L	3.7		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.91		ug/L	0.91		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	3.6		ug/L	3.6		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Spike	5.1		ug/L	5.1		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Spike	6.4		ug/L	6.4		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.12	J	ug/L	0.12	J	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Spike	5.2		ug/L	5.2		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.35	J	ug/L	0.35	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Spike	5.2		ug/L	5.2		1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.17	J	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.39	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YA9	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: MW006	pH: 1.0	Sample Date: 11/13/2018	Sample Time: 12:25:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	2.3		ug/L	2.3		1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	4.7	J	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.20	J	ug/L	0.20	J	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	2.5		ug/L	2.5		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.15	J	ug/L	0.15	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	22		ug/L	22	D	4.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene, tert-butyl-	TIC	0.54	J	ug/L	0.54	J	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
unknown-01	TIC	1.1	J	ug/L	1.1	J	1.0	YES	NV
p-Cymene	TIC	1.0	J	ug/L	1.0	J	1.0	YES	NV
4-Octanone, 5-hydroxy-3,6-dimethyl	TIC	9.6	J	ug/L	9.6	J	1.0	YES	NV
Benzene, 1,2,3-trimethyl-	TIC	2.5	J	ug/L	2.5	J	1.0	YES	NV
Benzene, (2-methylpropyl)-	TIC	0.72	J	ug/L	0.72	J	1.0	YES	NV
Pentalene, octahydro-, cis-	TIC	1.6	J	ug/L	1.6	J	1.0	YES	NV
Total Alkanes	TIC	11	B	ug/L	11	B	1.0	YES	NV
Benzene, propyl-	TIC	2.1	J	ug/L	2.1	J	1.0	YES	NV
Benzene, (2-methyl-2-propenyl)-	TIC	1.4	J	ug/L	1.4	J	1.0	YES	NV
Benzene, 1-ethenyl-3-ethyl-	TIC	4.3	J	ug/L	4.3	J	1.0	YES	NV
Benzene, 1-methyl-4-propyl-	TIC	2.3	J	ug/L	2.3	J	1.0	YES	NV
Naphthalene, 1,2,3,4-tetrahydro-	TIC	1.3	J	ug/L	1.3	J	1.0	YES	NV
1H-Indene, 2,3-dihydro-1,1-dimethy	TIC	0.51	J	ug/L	0.51	J	1.0	YES	NV
n-Butyl ether	TIC	76	J	ug/L	76	J	1.0	YES	NV
1-Propanol, 2-(1-methylethoxy)-	TIC	1.2	J	ug/L	1.2	J	1.0	YES	NV
Indane	TIC	11	J	ug/L	11	J	1.0	YES	NV
Benzene, 1-methyl-4-(2-propenyl)-	TIC	1.0	J	ug/L	1.0	J	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YB0	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: MW007	pH: 1.0	Sample Date: 11/14/2018	Sample Time: 14:05:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Vinyl chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromomethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichlorofluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Acetone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Carbon disulfide	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl Acetate	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylene chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
trans-1,2-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl tert-butyl Ether	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,2-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Butanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Bromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,1-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Cyclohexane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Carbon tetrachloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Benzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylcyclohexane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromodichloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
4-Methyl-2-pentanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Toluene	Target	200	J	ug/L	200	J	50.0	YES	S3VE
trans-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Tetrachloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Hexanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Dibromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromoethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Ethylbenzene	Target	6500		ug/L	6500		50.0	YES	S3VE
o-xylene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
m,p-Xylene	Target	13000		ug/L	13000	D	250.0	YES	S3VE
Styrene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromoform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Isopropylbenzene	Target	99	J	ug/L	99	J	50.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,3-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,4-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,4-trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Total Alkanes	TIC			ug/L			50.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1,2,3-trimethyl-	TIC	180	J	ug/L	180	J	50.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YB1	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: MW007	pH: 1.0	Sample Date: 11/14/2018	Sample Time: 14:05:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	UJ	ug/L	250	U	50.0	YES	S3VE
Chloromethane	Target	250	UJ	ug/L	250	U	50.0	YES	S3VE
Vinyl chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromomethane	Target	250	UJ	ug/L	250	U	50.0	YES	S3VE
Chloroethane	Target	250	UJ	ug/L	250	U	50.0	YES	S3VE
Trichlorofluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Acetone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Carbon disulfide	Target	250	UJ	ug/L	250	U	50.0	YES	S3VE
Methyl Acetate	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylene chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
trans-1,2-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl tert-butyl Ether	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,2-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Butanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Bromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,1-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Cyclohexane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Carbon tetrachloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Benzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylcyclohexane	Target	89	J	ug/L	89	J	50.0	YES	S3VE
1,2-Dichloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromodichloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
4-Methyl-2-pentanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Toluene	Target	230	J	ug/L	230	J	50.0	YES	S3VE
trans-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Tetrachloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Hexanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Dibromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromoethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Ethylbenzene	Target	6700		ug/L	6700		50.0	YES	S3VE
o-xylene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
m,p-Xylene	Target	13000		ug/L	13000	D	250.0	YES	S3VE
Styrene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromoform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Isopropylbenzene	Target	110	J	ug/L	110	J	50.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,3-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,4-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,4-trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Benzene, 1,2,3-trimethyl-	TIC	300	J	ug/L	300	J	50.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC			ug/L			50.0	YES	NV
Mesitylene	TIC	200	J	ug/L	200	J	50.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YB2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: TB001	pH: 1.0	Sample Date: 11/13/2018	Sample Time: 08:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	17		ug/L	17		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	1.7		ug/L	1.7		1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	2.0	J	ug/L	2.0	J	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: VBLK44	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: VBLK45	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: VBLK68	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: VBLK69	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
m,p-xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 47972/EPW14030/E3YA1** | **Lab Name: Chemtech Consulting Group**

Sample Number: VHBLK02	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC			ug/L			1.0	YES	NV

Southeast Rockford Area 11 - Semi Annual 2018 Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 18110609
Laboratory: STAT Analysis Corporation and TestAmerica Laboratories, Inc.

Matrix: Groundwater
Collection date: 11/13/2018, 11/14/2018, 11/15/2018
Analysis/Methods:

TCLP Volatile Organic Compounds (VOCs) - Method SW1311/8260B
Dissolved Gases in Water (Methane) - Method RSKSOP-175
Nitrate and Nitrite (Nitrogen, Nitrate-Nitrite) - Method M4500-NO3F
Sulfate in Water (Sulfate) - Method M4500SO4, E
Alkalinity (Alkalinity, Total (As CaCO3) - Method E310.1
pH - Method SW9045C
Paint Filter - Method SW9095A

Samples in SDG:

STAT Lab ID	Test America Lab ID	Sample Number
18110609-001	160-31950-1	A11-MW001-181113
18110609-002	160-31950-2	A11-MW002-181114
18110609-003	160-31950-3	A11-MW003-181114
18110609-004	160-31950-4	A11-MW004B-181114
18110609-005	160-31950-5	A11-MW004B-181114D
18110609-006	160-31950-6	A11-MW004A-181115
18110609-007	160-31950-7	A11-MW005-181113
18110609-008	160-31950-8	A11-MW006-181113
18110609-009	160-31950-9	A11-MW007-181114
18110609-010	Not Analyzed	A11-MW007-Soil

Data validation was performed in accordance with the specific analytical methods, National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017) and National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

TCLP VOCs

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**Yes**

Comments (note deviations):

Field Duplicates	**SW1311/8260B**	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
N/A						

MS/MSD	**SW1311/8260B**	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A					

LCS/LCSD	**SW1311/8260B**	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
VLCS112018-8		Acceptable	20%		

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**N/A**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**Yes**
Were the Surrogate % recoveries within laboratory determined control limits?			**Yes**
Were the Internal Standard areas within ± 50 - 150%?			**Yes**

Comments (note deviations):

Blanks	SW1311/8260B	Concentration (mg/L)	MDL /PQL		Qualifiers	Associated Samples
ZBLK111918-8	Nondetect					
VBLK112018-8	Nondetect					

Field Blank	SW1311/8260B	Concentration	MDL / PQL		Qualifiers	Associated Samples
N/A						

Surrogates	SW1311/8260B	%R	Limit		Qualifiers	Associated Samples
		Acceptable				

MS/MSD	SW1311/8260B	%R	Limits (%)		Qualifiers	Associated Samples
N/A						

LCS/LCSD	SW1311/8260B	%R	Limits		Qualifiers	Associated Samples
VLCS112018-8		Acceptable	70-130			
VLCSD112018-8		Acceptable	70-130			

ICAL	SW1311/8260B	RRF	%RSD		Qualifiers	Associated Samples
October 30 - 10:28		Acceptable	Acceptable			

CCV	SW1311/8260B	RRF	%R	Limits	Qualifiers	Associated Samples
November 20 - 09:02		Acceptable	Acceptable			

Tune	SW1311/8260B
Acceptable	

Internal Standards	SW1311/8260B	Area	Area Lower / Upper Limit		Qualifiers	Associated Samples
		Acceptable				

Methane (RSK-175) and Wet Chemistry Parameters

Precision:	**Yes No N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?	**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)	**Yes**
Laboratory Control Spike Duplicates RPD within limits?	**N/A**
Laboratory Duplicate RPDs within limits?	**Yes**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	18110609-004	**18110609-005**			
	A11-MW004B-181114	**A11-MW004B-181114D**			
Nitrogen, Nitrate-Nitrite			Acceptable		
Sulfate			Acceptable		
Alkalinity			Acceptable		
Methane			Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite 18110609-001CMS/CMSD	Acceptable	20%		
Sulfate 18110609-001CMS/CMSD	Acceptable	20%		
Alkalinity 18110609-007BMS	Acceptable	20%		
Methane 160-31950-7MS/MSD	Acceptable	30%		

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
pH 18110464-004BDUP	Acceptable	20%		

Accuracy:	**Yes No N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**Yes**
Laboratory Control Sample criteria met?	**Yes**
Were the Laboratory Method Blank results all < RL?	**No**
Were the Field Blanks results all < RL?	**N/A**
Was the ICAL criteria met?	**Yes**
Was the CCV criteria met?	**Yes**
Was the Tuning criteria met?	**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?	**Yes**
Were the Internal Standard areas within ± 50 - 150%?	**N/A**

Comments (note deviations):

Blanks	**Concentration (mg/L)**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite N2N3MWB1	0.0655	0.2	None	Sample results nondetet or > PQL
Sulfate SO4MBW1	Nondetect			
Alkalinity ALKMBW1	Nondetect			
Methane MB 490-559634/5	Nondetect			

ICB/CCB	Concentration (mg/L)	MDL /PQL	Qualifiers	Associated Samples
ICB - Nitrogen, Nitrate-Nitrite	0.02292	0.2	None	Sample results nondetect or > PQL
CCB - Nitrogen, Nitrate-Nitrite	-0.0285	0.2	None	-Blank result > -PQL
CCB - Nitrogen, Nitrate-Nitrite	0.03358	0.2	None	Sample results nondetect or > PQL
ICB - Sulfate	0.706	5	None	Sample results nondetect or > PQL
CCB - Sulfate	0.706	5	None	Sample results nondetect or > PQL

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
Methane	Acceptable			

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
Nitrogen, Nitrate-Nitrite 18110609-001CMS/CMSD	Acceptable	75-125		
Sulfate 18110609-001CMS/CMSD	Acceptable	75-125		
Alkalinity 18110609-007BMS	Acceptable	80-120		
Methane 160-31950-7MS/MSD	Acceptable	80-120		

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Nitrogen, Nitrate-Nitrite N2N3LCSW1	Acceptable	80-120		
Sulfate SO4LCSW1	Acceptable	80-120		
Alkalinity ALKLCSW1	Acceptable	80-120		
Methane LCS 490-559634/6	Acceptable	70-130		

ICAL	RRF	%RSD	Qualifiers	Associated Samples
Methane				
November 21 - 10:05	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
Methane					
November 26 - 10:42	Acceptable	Acceptable			
November 26 - 12:59	Acceptable	Acceptable			
November 26 - 13:34	Acceptable	Acceptable			

ICV / CCV	%R	Limits	Qualifiers	Associated Samples
Nitrogen, Nitrate-Nitrite	Acceptable			
Sulfate	Acceptable			

Tune

N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:

	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 0.6, 1.1 and 3.6 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:

	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):

	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:

	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:

Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 5/19/2019

Data Reviewer: Cherie Zakowski Date: 5/21/2019

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: December 05, 2018
Date Printed: December 05, 2018

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 231605, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 18110609 Revision 0

Lab ID: 18110609-001 **Collection Date:** 11/13/2018 4:15:00 PM
Client Sample ID A11-MW001-181113 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.0050		mg/L	1	11/26/2018
Nitrate and Nitrite	**M4500-NO3F**			Prep Date:		Analyst: **MD**
Nitrogen, Nitrate-Nitrite	2.5	0.20		mg/L	1	11/18/2018
Sulfate in Water	**M4500SO4,E**			Prep Date:	**11/18/2018**	Analyst: **MD**
Sulfate	41.7	20.0	*	mg/L	4	11/18/2018
Alkalinity	**E310.1**			Prep Date:	**11/17/2018**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	350	100	*	mg/L CaCO3	1	11/17/2018

Lab ID: 18110609-002 **Collection Date:** 11/14/2018 4:20:00 PM
Client Sample ID A11-MW002-181114 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	13	0.20		mg/L	40	11/26/2018
Nitrate and Nitrite	**M4500-NO3F**			Prep Date:		Analyst: **MD**
Nitrogen, Nitrate-Nitrite	ND	0.20		mg/L	1	11/18/2018
Sulfate in Water	**M4500SO4,E**			Prep Date:	**11/18/2018**	Analyst: **MD**
Sulfate	ND	10.0	*	mg/L	2	11/18/2018
Alkalinity	**E310.1**			Prep Date:	**11/17/2018**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	380	100	*	mg/L CaCO3	1	11/17/2018

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: December 05, 2018
Date Printed: December 05, 2018

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 231605, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 18110609 Revision 0

Lab ID: 18110609-003 **Collection Date:** 11/14/2018 12:00:00 PM
Client Sample ID A11-MW003-181114 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	6.1	0.10		mg/L	20	11/26/2018
Nitrate and Nitrite	**M4500-NO3F**			Prep Date:		Analyst: **MD**
Nitrogen, Nitrate-Nitrite	ND	0.20		mg/L	1	11/18/2018
Sulfate in Water	**M4500SO4,E**			Prep Date:	**11/18/2018**	Analyst: **MD**
Sulfate	14.6	10.0	*	mg/L	2	11/18/2018
Alkalinity	**E310.1**			Prep Date:	**11/17/2018**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	370	100	*	mg/L CaCO3	1	11/17/2018

Lab ID: 18110609-004 **Collection Date:** 11/14/2018 10:30:00 AM
Client Sample ID A11-MW004B-181114 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.046	0.0050		mg/L	1	11/26/2018
Nitrate and Nitrite	**M4500-NO3F**			Prep Date:		Analyst: **MD**
Nitrogen, Nitrate-Nitrite	2.3	0.20		mg/L	1	11/18/2018
Sulfate in Water	**M4500SO4,E**			Prep Date:	**11/18/2018**	Analyst: **MD**
Sulfate	74.1	20.0	*	mg/L	4	11/18/2018
Alkalinity	**E310.1**			Prep Date:	**11/17/2018**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	350	100	*	mg/L CaCO3	1	11/17/2018

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: December 05, 2018
Date Printed: December 05, 2018

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 231605, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 18110609 Revision 0

Lab ID: 18110609-005 **Collection Date:** 11/14/2018 10:30:00 AM
Client Sample ID A11-MW004B-181114-D **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.040	0.0050		mg/L	1	11/26/2018
Nitrate and Nitrite	**M4500-NO3F**			Prep Date:		Analyst: **MD**
Nitrogen, Nitrate-Nitrite	2.3	0.20		mg/L	1	11/18/2018
Sulfate in Water	**M4500SO4,E**			Prep Date:	**11/18/2018**	Analyst: **MD**
Sulfate	76.9	20.0	*	mg/L	4	11/18/2018
Alkalinity	**E310.1**			Prep Date:	**11/17/2018**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	360	100	*	mg/L CaCO3	1	11/17/2018

Lab ID: 18110609-006 **Collection Date:** 11/15/2018 11:15:00 AM
Client Sample ID A11-MW004A-181115 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.0050		mg/L	1	11/26/2018
Nitrate and Nitrite	**M4500-NO3F**			Prep Date:		Analyst: **MD**
Nitrogen, Nitrate-Nitrite	1.5	0.20		mg/L	1	11/18/2018
Sulfate in Water	**M4500SO4,E**			Prep Date:	**11/18/2018**	Analyst: **MD**
Sulfate	26.9	10.0	*	mg/L	2	11/18/2018
Alkalinity	**E310.1**			Prep Date:	**11/17/2018**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	350	100	*	mg/L CaCO3	1	11/17/2018

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: December 05, 2018
Date Printed: December 05, 2018

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 231605, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 18110609 Revision 0

Lab ID: 18110609-007 **Collection Date:** 11/13/2018 2:55:00 PM
Client Sample ID A11-MW005-181113 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.0050		mg/L	1	11/26/2018
Nitrate and Nitrite	**M4500-NO3F**			Prep Date:		Analyst: **MD**
Nitrogen, Nitrate-Nitrite	4.4	0.20		mg/L	1	11/18/2018
Sulfate in Water	**M4500SO4,E**			Prep Date:	**11/18/2018**	Analyst: **MD**
Sulfate	50.9	20.0	*	mg/L	4	11/18/2018
Alkalinity	**E310.1**			Prep Date:	**11/17/2018**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	360	100	*	mg/L CaCO3	1	11/17/2018

Lab ID: 18110609-008 **Collection Date:** 11/13/2018 12:25:00 PM
Client Sample ID A11-MW006-181113 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	5.0	0.10		mg/L	20	11/26/2018
Nitrate and Nitrite	**M4500-NO3F**			Prep Date:		Analyst: **MD**
Nitrogen, Nitrate-Nitrite	ND	0.20		mg/L	1	11/18/2018
Sulfate in Water	**M4500SO4,E**			Prep Date:	**11/18/2018**	Analyst: **MD**
Sulfate	ND	10.0	*	mg/L	2	11/18/2018
Alkalinity	**E310.1**			Prep Date:	**11/17/2018**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	400	100	*	mg/L CaCO3	1	11/17/2018

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: December 05, 2018
Date Printed: December 05, 2018

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 231605, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 18110609 Revision 0

Lab ID: 18110609-009 **Collection Date:** 11/14/2018 2:05:00 PM
Client Sample ID A11-MW007-181114 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	20	0.20		mg/L	40	11/26/2018
Nitrate and Nitrite	**M4500-NO3F**			Prep Date:		Analyst: **MD**
Nitrogen, Nitrate-Nitrite	ND	0.20		mg/L	1	11/18/2018
Sulfate in Water	**M4500SO4,E**			Prep Date:	**11/18/2018**	Analyst: **MD**
Sulfate	ND	10.0	*	mg/L	2	11/18/2018
Alkalinity	**E310.1**			Prep Date:	**11/17/2018**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	520	100	*	mg/L CaCO3	1	11/17/2018

Lab ID: 18110609-010 **Collection Date:** 11/15/2018 11:00:00 AM
Client Sample ID A11-MW007-Soil **Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Volatile Organic Compounds by GC/MS	**SW1311/8260B (SW5030B)**			Prep Date:	**11/19/2018**	Analyst: **MJK**
Benzene	ND	0.050		mg/L	10	11/20/2018
2-Butanone	ND	0.20		mg/L	10	11/20/2018
Carbon tetrachloride	ND	0.050		mg/L	10	11/20/2018
Chlorobenzene	ND	0.050		mg/L	10	11/20/2018
Chloroform	ND	0.050		mg/L	10	11/20/2018
1,2-Dichloroethane	ND	0.050		mg/L	10	11/20/2018
1,1-Dichloroethene	ND	0.050		mg/L	10	11/20/2018
Tetrachloroethene	ND	0.050		mg/L	10	11/20/2018
Trichloroethene	ND	0.050		mg/L	10	11/20/2018
Vinyl chloride	ND	0.050		mg/L	10	11/20/2018
pH (25 °C)	**SW9045C**			Prep Date:	**11/19/2018**	Analyst: **RW**
pH	9.08			pH Units	1	11/19/2018
Paint Filter	**SW9095A**			Prep Date:	**11/19/2018**	Analyst: **RW**
Paint Filter	Pass			Pass/Fail	1	11/19/2018

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Client Sample Results

Client: STAT Analysis Corp
Project/Site: Methane in Water

TestAmerica Job ID: 160-31950-1

Client Sample ID: A11-MW001-181113
Lab Sample ID: 160-31950-1
Date Collected: 11/13/18 16:15
Matrix: Water
Date Received: 11/20/18 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.0017	U	0.0050	0.0017	mg/L			11/26/18 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*95*		*70 - 130*		*11/26/18 11:25*	*1*

Client Sample ID: A11-MW002-181114
Lab Sample ID: 160-31950-2
Date Collected: 11/14/18 16:20
Matrix: Water
Date Received: 11/20/18 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**13**		0.20	0.068	mg/L			11/26/18 13:11	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*95*		*70 - 130*		*11/26/18 11:30*	*1*

Client Sample ID: A11-MW003-181114
Lab Sample ID: 160-31950-3
Date Collected: 11/14/18 12:00
Matrix: Water
Date Received: 11/20/18 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**6.1**		0.10	0.034	mg/L			11/26/18 13:15	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*96*		*70 - 130*		*11/26/18 11:33*	*1*

Client Sample ID: A11-MW004B-181114
Lab Sample ID: 160-31950-4
Date Collected: 11/14/18 10:30
Matrix: Water
Date Received: 11/20/18 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**0.046**		0.0050	0.0017	mg/L			11/26/18 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*96*		*70 - 130*		*11/26/18 11:37*	*1*

Client Sample ID: A11-MW004B-181114D
Lab Sample ID: 160-31950-5
Date Collected: 11/14/18 10:30
Matrix: Water
Date Received: 11/20/18 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**0.040**		0.0050	0.0017	mg/L			11/26/18 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*101*		*70 - 130*		*11/26/18 11:40*	*1*

Client Sample Results

Client: STAT Analysis Corp
Project/Site: Methane in Water

TestAmerica Job ID: 160-31950-1

Client Sample ID: A11-MW004A-181115

Lab Sample ID: 160-31950-6
Date Collected: 11/15/18 11:15
Matrix: Water
Date Received: 11/20/18 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.0017	U	0.0050	0.0017	mg/L			11/26/18 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*96*		*70 - 130*		*11/26/18 11:43*	*1*

Client Sample ID: A11-MW005-181113

Lab Sample ID: 160-31950-7
Date Collected: 11/13/18 14:55
Matrix: Water
Date Received: 11/20/18 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.0017	U	0.0050	0.0017	mg/L			11/26/18 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*92*		*70 - 130*		*11/26/18 11:47*	*1*

Client Sample ID: A11-MW006-181113

Lab Sample ID: 160-31950-8
Date Collected: 11/13/18 12:25
Matrix: Water
Date Received: 11/20/18 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**5.0**		0.10	0.034	mg/L			11/26/18 13:18	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*94*		*70 - 130*		*11/26/18 12:04*	*1*

Client Sample ID: A11-MW007-181114

Lab Sample ID: 160-31950-9
Date Collected: 11/14/18 14:05
Matrix: Water
Date Received: 11/20/18 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**20**		0.20	0.068	mg/L			11/26/18 13:23	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*83*		*70 - 130*		*11/26/18 12:10*	*1*

May 2019 Data Validation Files and Data Packages

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: June 12 , 2019

FROM: Timothy Prendiville, Supervisor (SR-6J)
Superfund Contract Management Section

TO: Data User: CDM Smith
Email Address: grabsjc@cdm.com

Electronic and Manual Validation for Region 5

We have reviewed the data for the following case:

SITE Name: Southeast Rockford Groundwater Contamination (IL)

Case No: 48274 MA No: N/A SDG No: E3YE8

Number and Type of Samples: 11 waters (6 Trace Volatiles/ 5 L/M Volatiles)

Sample Numbers: E3YE8, E3YE9, E3YF0 – E3YF8

Laboratory: Chemtech Consulting Group (CHM) Hrs. for Review:

Following are our findings:

CC: Howard Pham
Region 5 ESAT Contracting Officer's Representative
Mail Code: SA-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

The following eleven (11) preserved water samples were shipped to Chemtech Consulting Group (CHM) located in Mountainside, NJ. The samples were collected May 20-21, 2019 and received on May 22, 2019, intact and properly cooled. Five (5) samples were analyzed for the low/medium level volatile analyte list and six (6) samples were analyzed for the trace level volatile analyte list. All samples were analyzed according to CLP SOW SOM02.4 (October 2016). The data package was reviewed according to the January 2017 NFG for SOM02.4 (EPA-540-R-2017-002) and the ESAT Region 5 Organic CLP Validation SOP.

CLP Sample ID	Collection Date/Time	Receipt Date	Matrix	Trace VOA Analyses	L/M VOA Analyses
E3YE8	05/20/2019 08:00	05/22/2019	Water	X	
E3YE9	05/20/2019 11:27	05/22/2019	Water	X	
E3YF0	05/20/2019 13:43	05/22/2019	Water	X	
E3YF1	05/20/2019 15:25	05/22/2019	Water	X	
E3YF2	05/20/2019 17:13	05/22/2019	Water	X	
E3YF3	05/20/2019 17:45	05/22/2019	Water	X	
E3YF4	05/21/2019 08:50	05/22/2019	Water		X
E3YF5	05/21/2019 10:25	05/22/2019	Water		X
E3YF6	05/21/2019 10:25	05/22/2019	Water		X
E3YF7	05/21/2019 12:05	05/22/2019	Water		X
E3YF8	05/21/2019 13:30	05/22/2019	Water		X

Trace volatile sample, E3YF0, and low/medium volatile sample, E3YF7, were designated as the parent samples for the MS/MSD analyses.

Trace volatile sample, E3YE8 [A11-TB001-190520], was identified as a trip blank. Trace volatile sample, E3YF3 [A11-FB001-190520], was identified as a field blank. Low/medium volatile sample, E3YF6 [A11-MW007-190521-D] was identified as a field duplicate of low/medium volatile sample, E3YF5 [A11-MW007-190521].

1. PRESERVATION AND HOLDING TIMES

No problems found.

2. GAS CHROMATOGRAPH/MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

No problems found.

3. INITIAL CALIBRATION

The following trace volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detects are qualified as estimated J+. Non-detects are qualified as unusable R.

E3YE8, E3YE9, E3YE9DL (Not Reported), E3YF0, E3YF0MS, E3YF0MSD, E3YF1, E3YF1DL (Not Reported), E3YF2, E3YF3, VBLK22, VBLK23, VBLK24, VBLK25, VHBLK02
o-Xylene, Isopropylbenzene

The following low/medium volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detects are not qualified. Non-detects are not qualified.

E3YF4, E3YF4DL, E3YF5, E3YF6, E3YF7, E3YF7MS, E3YF7MSD, E3YF8, E3YF8DL, VBLK42, VBLK43, VHBLK01
trans-1,3-Dichloropropene-d4

4. INITIAL CALIBRATION VERIFICATION

The following trace volatile samples are associated with an ICV with target analyte RRF exceeding criteria. Detects are qualified as estimated J. Non-detects are qualified as unusable R.

E3YE8, E3YE9, E3YE9DL (Not Reported), E3YF0, E3YF0MS, E3YF0MSD, E3YF1, E3YF1DL (Not Reported), E3YF2, E3YF3, VBLK22, VBLK23, VBLK24, VBLK25, VHBLK02
o-Xylene

The following low/medium volatile samples are associated with an ICV with DMC RRF exceeding criteria. Detects are not qualified. Non-detects are not qualified.

E3YF4, E3YF4DL, E3YF5, E3YF6, E3YF7, E3YF7MS, E3YF7MSD, E3YF8, E3YF8DL, VBLK42, VBLK43, VHBLK01
trans-1,3-Dichloropropene-d4

5. CONTINUING CALIBRATION

The following trace volatile samples are associated with an opening or closing CCV with target analyte RRF exceeding criteria. Detects are qualified as estimated J. Non-detects are qualified as unusable R.

E3YE8, E3YE9, E3YE9DL (Not Reported), E3YF0, E3YF0MS, E3YF0MSD, E3YF1, E3YF1DL (Not Reported), E3YF2, E3YF3, VBLK22, VBLK23, VBLK24, VBLK25, VHBLK02
o-Xylene, Isopropylbenzene

The following low/medium samples are associated with an opening or closing CCV with DMC RRF exceeding criteria. Detects are not qualified. Non-detects are not qualified.

E3YF4, E3YF4DL, E3YF5, E3YF6, E3YF7, E3YF7MS, E3YF7MSD, E3YF8, E3YF8DL, VBLK42, VBLK43, VHBLK01
trans-1,3-Dichloropropene-d4

6. BLANKS

The following trace volatile samples were analyzed after a highly contaminated sample and have no preceding instrument blank. Detects are qualified as estimated J for possible carry-over. Non-detects are not qualified.

E3YF0
Isopropylbenzene

The following low/medium volatile samples were analyzed after a highly contaminated sample and have no preceding instrument blank. Detects are qualified as estimated J for possible carry-over. Non-detects are not qualified.

E3YF7MSD
Toluene

The following trace volatile samples have analyte results reported less than CRQLs. The associated trip blank, E3YE8, results are less than CRQLs. Detects are qualified U. Sample results have been reported at CRQLs.

E3YF1, E3YF3
m,p-Xylene

The following trace volatile samples have analyte results reported greater than CRQL and less than the blank result. The associated trip blank, E3YE8, results are greater than CRQLs. Detects are qualified U. Sample results have been reported.

E3YE9, E3YF0, E3YF0MS, E3YF0MSD, E3YF1, E3YF2, E3YF3
Acetone

E3YE9
cis-1,2-Dichloroethene

The following trace volatile samples have analyte results reported less than CRQLs. The associated trip blank, E3YE8, results are greater than CRQLs. Detects are qualified U. Sample results have been reported at CRQLs.

E3YE9DL (Not Reported), E3YF1DL (Not Reported)
Acetone

The following trace volatile samples have analyte results reported less than CRQLs. The associated field blank, E3YF3, results are less than CRQLs. Detects are qualified U. Sample results have been reported at CRQLs.

E3YE9
Toluene

7. DEUTERATED MONITORING COMPOUNDS / SURROGATES

The following trace volatile samples have DMC/surrogate percent recoveries less than the primary minimum criteria but greater than or equal to the expanded minimum criteria. Detects are qualified as estimated J-. Non-detects are qualified as estimated UJ. Non-detects for o-Xylene and Isopropylbenzene are qualified as unusable R due to non-compliant calibration criteria.

E3YE8, E3YE9, E3YF0, E3YF1
Chlorobenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

E3YE9DL (Not Reported)
Chlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

E3YF1DL (Not Reported), E3YF2, E3YF3
Trichloroethene, Toluene, Tetrachloroethene, Chlorobenzene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Trace volatile sample, E3YF0, and low/medium volatile sample, E3YF7, were designated as the parent samples for the MS/MSD analyses.

No problems found.

9. FLORISIL CARTRIDGE PERFORMANCE CHECK

Not required for these analyses.

10. CLEANUP PROCEDURES

Not required for these analyses.

11. LABORATORY CONTROL SAMPLE

Not required for these analyses.

12. INTERNAL STANDARD

No problems found.

13. TARGET ANALYTE IDENTIFICATION

The following trace volatile samples have analyte results greater than the upper limit of calibration range. Samples were re-analyzed at dilution. Detects are not qualified.

E3YE9
Isopropylbenzene

E3YF1
1,1-Dichloroethane, 1,1,1-Trichloroethane

The following low/medium volatile samples have analyte results greater than the upper limit of calibration range. Samples were re-analyzed at dilution. Detects are not qualified.

E3YF4
m,p-Xylene

E3YF8
Toluene

The following low/medium volatile samples have analyte results greater than the upper limit of calibration range. Samples were not re-analyzed as they were QC samples. Detects are qualified as estimated J.

E3YF7MS, E3YF7MSD
Toluene

14. REPORTED CONTRACT QUANTITATION LIMIT

The following trace volatile samples have analyte results greater than or equal to method detection limit (MDL) and below contract required quantitation limit (CRQL). Detects are qualified as estimated J.

E3YE8
2-Butanone, m,p-Xylene

E3YE9
Tetrachloroethene, o-Xylene

E3YE9DL (Not Reported)
Chloroethane

E3YF0
Trichlorofluoromethane, trans-1,2-Dichloroethene, Bromodichloromethane, Ethylbenzene, o-Xylene, Isopropylbenzene

E3YF0MS, E3YF0MSD
Trichlorofluoromethane, trans-1,2-Dichloroethene, Bromodichloromethane, Ethylbenzene, o-Xylene

E3YF1
Trichlorofluoromethane, trans-1,2-Dichloroethene, o-Xylene

E3YF2
Trichlorofluoromethane, o-Xylene

E3YF3
Toluene

The following low/medium volatile samples have analyte results greater than or equal to method detection limit (MDL) and below contract required quantitation limit (CRQL). Detects are qualified as estimated J.

E3YF4
Acetone, Methylcyclohexane, Ethylbenzene, Isopropylbenzene

E3YF4DL (Not Reported)
Toluene

E3YF5, E3YF6
1,1-Dichloroethane, Methylcyclohexane, Toluene, Isopropylbenzene

E3YF7, E3YF7MS, E3YF7MSD
Methylcyclohexane

E3YF8
Acetone, o-Xylene

15. TENTATIVELY IDENTIFIED COMPOUNDS

Sample results are identified in the separate Data Validation Report titled 'Tentatively Identified Compounds'. The manually reviewed report is titled NFG_TIC.SOUTHEAST_ROCKFORD_GROUND_WATER_CONTAMINATION_Project.48274.EPW14030.E3YE8.rtf'.

16. SYSTEM PERFORMANCE

No problems found.

17. FIELD QC SAMPLES

Trace volatile sample, E3YE8 [A11-TB001-190520], was identified as a trip blank. Trace volatile sample, E3YF3 [A11-FB001-190520], was identified as a field blank. Low/medium volatile sample, E3YF6 [A11-MW007-190521-D] was identified as a field duplicate of low/medium volatile sample, E3YF5 [A11-MW007-190521]. Results are summarized in the following table:

Sample Type:	Trip Blank	Field Blank
Sample #:	A11-TB001-190520	A11-FB001-190520
CLP Sample:	**E3YE8**	**E3YF3**
Location:	A11-TB001	A11-FB001
Collection Date/Time:	05/20/2019 08:00	05/20/2019 17:45
Units:	µg/L	µg/L
Acetone	35	ND
Methylene chloride	2.2	ND
cis-1,2-Dichloroethene	0.77	ND
2-Butanone	4.0 J	ND
Toluene	ND	0.24 J
m,p-Xylene	0.32 J	ND
Associated field samples:	E3YE9, E3YF0,	E3YE9, E3YF0,

	E3YF1, E3YF2, E3YF3	E3YF1, E3YF2

ND = Not Detected.

Sample Type:	Field Sample		Field Duplicate		
Sample #:	A11-MW007-190521		A11-MW007-190521-D		
CLP Sample:	**E3YF5**		**E3YF6**		
Location:	A11-MW007		A11-MW007		
Collection Date/Time:	05/21/2019 10:25		05/21/2019 10:25		RPDs
Units:	µg/L		µg/L		%
Dilution factor:	25.0		25.0		
1,1-Dichloroethane	20	J	21	J	4.9
Methylcyclohexane	100	J	99	J	1.0
Toluene	12	J	10	J	18.2
Ethylbenzene	2500		2600		3.9
m,p-Xylene	4500		4500		0.0
Isopropylbenzene	91	J	92	J	1.1
# of TICs	2		3		

18. OVERALL ASSESSMENT

Manual integrations were performed for the following samples due to a "peak integrated by software incorrectly" according to the laboratory narrative. These manual integrations were reviewed by the reviewer and appear to be acceptable without additional qualifications.

QC Type	EPA samples	Date/Time analyzed	File ID	Analytes
TVOA ICAL	VSTD0.507	22 May 2019 12:32	VU032216.D	2-Butanone
		22 May 2019 12:32	VU032216.D	1,2-Dibromo-3-chloropropane
		22 May 2019 12:32	VU032216.D	1,2,4-Trichlorobenzene
		22 May 2019 12:32	VU032216.D	Naphthalene (Semivolatile)
TVOA ICAL	VSTD00108	22 May 2019 12:57	VU032217.D	1,2,4-Trichlorobenzene
		22 May 2019 12:57	VU032217.D	Naphthalene (Semivolatile)
TVOA FS	**E3YE9**	23 May 2019 02:14	VU052219.D	Methylcyclohexane

QC Type	EPA samples	Date/Time analyzed	File ID	Analytes
VOA ICAL	VSTD00552	24 May 2019 03:57	VU032287.D	2-Butanone-d5 (DMC)
		24 May 2019 03:57	VU032287.D	Carbon tetrachloride
		24 May 2019 03:57	VU032287.D	Naphthalene (Semivolatile)
VOA ICAL	VSTD01053	24 May 2019 04:20	VU032288.D	Naphthalene (Semivolatile)
VOA FS	**E3YF8**	24 May 2019 08:40	VU032297.D	Toluene

Case No: 48274 SDG No: E3YE8
Site Name: Southeast Rockford Groundwater Contamination (IL) Laboratory: CHM

QC Type	EPA samples	Date/Time analyzed	File ID	Analytes
VOA ICAL	VSTD00553	28 May 2019 11:01	VU032318.D	2-Butanone-d5
		28 May 2019 11:01	VU032318.D	Naphthalene (Semivolatile)

DMC = Deuterated Monitoring Compound/Surrogate

Reviewed by: Allison C. Harvey /Techlaw-ESAT
Date: June 26, 2019

Case No: 48274 SDG No: E3YE8
Site Name: Southeast Rockford Groundwater Contamination (IL) Laboratory: CHM

Validation Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Reviewed by: Allison C. Harvey /Techlaw-ESAT
Date: June 26, 2019

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YE8	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-TB001	pH: 1.0	Sample Date: 05/20/2019	Sample Time: 08:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	35		ug/L	35		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	2.2		ug/L	2.2		1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.77		ug/L	0.77		1.0	YES	S3VE
2-Butanone	Target	4.0	J	ug/L	4.0	J	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.32	J	ug/L	0.32	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YE9	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-MW006	pH: 1.0	Sample Date: 05/20/2019	Sample Time: 11:27:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	1.4		ug/L	1.4		1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	7.1	U	ug/L	7.1		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.75		ug/L	0.75		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.74	U	ug/L	0.74		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	8.8		ug/L	8.8		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.71		ug/L	0.71		1.0	YES	S3VE
1,2-Dichloropropane	Target	3.1		ug/L	3.1		1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.11	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.17	J	ug/L	0.17	J	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.24	J+	ug/L	0.24	J	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	37	J+	ug/L	37	D	5.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
o-Cymene	TIC	0.60	JN	ug/L	0.60	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1-methyl-4-propyl-	TIC	1.2	JN	ug/L	1.2	JN	1.0	YES	NV
unknown--01	TIC	14	J	ug/L	14	J	1.0	YES	NV
3-Hexanol, 2,3-dimethyl-	TIC	6.3	JN	ug/L	6.3	JN	1.0	YES	NV
Pentalene, octahydro-, cis-	TIC	1.8	JN	ug/L	1.8	JN	1.0	YES	NV
Ethane, 1-chloro-1,1-difluoro-	TIC	1.4	JN	ug/L	1.4	JN	1.0	YES	NV
unknown-02	TIC	1.0	J	ug/L	1.0	J	1.0	YES	NV
Indan, 1-methyl-	TIC	1.2	JN	ug/L	1.2	JN	1.0	YES	NV
1-Propanol, 2-(1-methylethoxy)-	TIC	2.3	JN	ug/L	2.3	JN	1.0	YES	NV
Total Alkanes	TIC	8.3	BN	ug/L	8.3	BN	1.0	YES	NV
n-Butyl ether	TIC	58	JN	ug/L	58	JN	1.0	YES	NV
Indane	TIC	8.9	JN	ug/L	8.9	JN	1.0	YES	NV
Butane, 1-(1-methylpropoxy)-	TIC	1.3	JN	ug/L	1.3	JN	1.0	YES	NV
Benzene, 1-methyl-2-(2-propenyl)-	TIC	1.1	JN	ug/L	1.1	JN	1.0	YES	NV
2-Cyclohexylethyl ethylphosphonofl	TIC	0.79	JN	ug/L	0.79	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF0	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-MW005	pH: 1.0	Sample Date: 05/20/2019	Sample Time: 13:43:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.31	J	ug/L	0.31	J	1.0	YES	S3VE
1,1-Dichloroethene	Target	1.1		ug/L	1.1		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	7.5	U	ug/L	7.5		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.30	J	ug/L	0.30	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	7.2		ug/L	7.2		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.6		ug/L	1.6		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	6.4		ug/L	6.4		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	2.1		ug/L	2.1		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.33	J	ug/L	0.33	J	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.86		ug/L	0.86		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.14	J	ug/L	0.14	J	1.0	YES	S3VE
o-Xylene	Target	0.44	J+	ug/L	0.44	J	1.0	YES	S3VE
m,p-Xylene	Target	0.75		ug/L	0.75		1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.14	J+	ug/L	0.14	J	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF0MS	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 05/20/2019	Sample Time: 13:43:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.33	J	ug/L	0.33	J	1.0	YES	S3VE
1,1-Dichloroethene	Spike	6.8		ug/L	6.8		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	8.0	U	ug/L	8.0		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.30	J	ug/L	0.30	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	7.5		ug/L	7.5		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.7		ug/L	1.7		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	6.5		ug/L	6.5		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Spike	6.0		ug/L	6.0		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Spike	7.7		ug/L	7.7		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.32	J	ug/L	0.32	J	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Spike	5.8		ug/L	5.8		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.72		ug/L	0.72		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Spike	6.2		ug/L	6.2		1.0	YES	S3VE
Ethylbenzene	Target	0.14	J	ug/L	0.14	J	1.0	YES	S3VE
o-Xylene	Target	0.45	J+	ug/L	0.45	J	1.0	YES	S3VE
m,p-Xylene	Target	0.77		ug/L	0.77		1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF0MSD	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 05/20/2019	Sample Time: 13:43:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.32	J	ug/L	0.32	J	1.0	YES	S3VE
1,1-Dichloroethene	Spike	6.3		ug/L	6.3		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	7.5	U	ug/L	7.5		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.31	J	ug/L	0.31	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	7.2		ug/L	7.2		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	1.7		ug/L	1.7		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	6.3		ug/L	6.3		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Spike	5.8		ug/L	5.8		1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Spike	7.6		ug/L	7.6		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.32	J	ug/L	0.32	J	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Spike	5.7		ug/L	5.7		1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.71		ug/L	0.71		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Spike	6.2		ug/L	6.2		1.0	YES	S3VE
Ethylbenzene	Target	0.15	J	ug/L	0.15	J	1.0	YES	S3VE
o-Xylene	Target	0.47	J+	ug/L	0.47	J	1.0	YES	S3VE
m,p-Xylene	Target	0.72		ug/L	0.72		1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF1	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-MW001	pH: 1.0	Sample Date: 05/20/2019	Sample Time: 15:25:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.32	J	ug/L	0.32	J	1.0	YES	S3VE
1,1-Dichloroethene	Target	4.6		ug/L	4.6		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	7.4	U	ug/L	7.4		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.46	J	ug/L	0.46	J	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	20		ug/L	20	D	4.0	YES	S3VE
cis-1,2-Dichloroethene	Target	3.4		ug/L	3.4		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	22		ug/L	22	D	4.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	4.7		ug/L	4.7		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	2.7		ug/L	2.7		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.30	J+	ug/L	0.30	J	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.47	J	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Ethane, 1-chloro-1,1-difluoro-	TIC	3.2	JN	ug/L	3.2	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-MW004B	pH: 1.0	Sample Date: 05/20/2019	Sample Time: 17:13:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.29	J	ug/L	0.29	J	1.0	YES	S3VE
1,1-Dichloroethene	Target	3.2		ug/L	3.2		1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	6.1	U	ug/L	6.1		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.52		ug/L	0.52		1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	20		ug/L	20		1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	3.8		ug/L	3.8		1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	18		ug/L	18		1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	3.1	J-	ug/L	3.1		1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.93	J-	ug/L	0.93		1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.24	J+	ug/L	0.24	J	1.0	YES	S3VE
m,p-Xylene	Target	0.53	J-	ug/L	0.53		1.0	YES	S3VE
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Ethane, 1-chloro-1,1-difluoro-	TIC	2.0	JN	ug/L	2.0	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Ethane, 1,1-difluoro-	TIC	0.57	JN	ug/L	0.57	JN	1.0	YES	NV
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF3	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-FB001	pH: 1.0	Sample Date: 05/20/2019	Sample Time: 17:45:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	30	U	ug/L	30		1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.24	J-	ug/L	0.24	J	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	UJ	ug/L	0.30	J	1.0	YES	S3VE
Styrene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF4	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW003	pH: 1.0	Sample Date: 05/21/2019	Sample Time: 08:50:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Vinyl chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromomethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichlorofluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Acetone	Target	78	J	ug/L	78	J	50.0	YES	S3VE
Carbon disulfide	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl Acetate	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylene chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
trans-1,2-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl tert-butyl Ether	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,2-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Butanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Bromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,1-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Cyclohexane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Carbon tetrachloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Benzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylcyclohexane	Target	110	J	ug/L	110	J	50.0	YES	S3VE
1,2-Dichloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromodichloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
4-Methyl-2-pentanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Toluene	Target	570		ug/L	570		50.0	YES	S3VE
trans-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Tetrachloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Hexanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Dibromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromoethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Ethylbenzene	Target	160	J	ug/L	160	J	50.0	YES	S3VE
o-xylene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
m,p-Xylene	Target	12000		ug/L	12000	D	250.0	YES	S3VE
Styrene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromoform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Isopropylbenzene	Target	57	J	ug/L	57	J	50.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,3-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,4-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,4-trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Benzene, 1,2,3-trimethyl-	TIC	160	JN	ug/L	160	JN	50.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC		N	ug/L		N	50.0	YES	NV
Benzene, 1-ethyl-3-methyl-	TIC	180	JN	ug/L	180	JN	50.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF5	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW007	pH: 1.0	Sample Date: 05/21/2019	Sample Time: 10:25:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Chloromethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Vinyl chloride	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Bromomethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Chloroethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Trichlorofluoromethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,1-Dichloroethene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Acetone	Target	250	U	ug/L	250	U	25.0	YES	S3VE
Carbon disulfide	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Methyl Acetate	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Methylene chloride	Target	130	U	ug/L	130	U	25.0	YES	S3VE
trans-1,2-Dichloroethene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Methyl tert-butyl Ether	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,1-Dichloroethane	Target	20	J	ug/L	20	J	25.0	YES	S3VE
cis-1,2-Dichloroethene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
2-Butanone	Target	250	U	ug/L	250	U	25.0	YES	S3VE
Bromochloromethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Chloroform	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,1,1-Trichloroethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Cyclohexane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Carbon tetrachloride	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Benzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,2-Dichloroethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Trichloroethene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Methylcyclohexane	Target	100	J	ug/L	100	J	25.0	YES	S3VE
1,2-Dichloropropane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Bromodichloromethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
cis-1,3-Dichloropropene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
4-Methyl-2-pentanone	Target	250	U	ug/L	250	U	25.0	YES	S3VE
Toluene	Target	12	J	ug/L	12	J	25.0	YES	S3VE
trans-1,3-Dichloropropene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,1,2-Trichloroethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Tetrachloroethene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
2-Hexanone	Target	250	U	ug/L	250	U	25.0	YES	S3VE
Dibromochloromethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,2-Dibromoethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Chlorobenzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Ethylbenzene	Target	2500		ug/L	2500		25.0	YES	S3VE
o-xylene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
m,p-Xylene	Target	4500		ug/L	4500		25.0	YES	S3VE
Styrene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Bromoform	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Isopropylbenzene	Target	91	J	ug/L	91	J	25.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,3-Dichlorobenzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,4-Dichlorobenzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,2-Dichlorobenzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,2,4-trichlorobenzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Benzene, 1,2,3-trimethyl-	TIC	100	JN	ug/L	100	JN	25.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, propyl-	TIC	120	JN	ug/L	120	JN	25.0	YES	NV
Total Alkanes	TIC		N	ug/L		N	25.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF6	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW007	pH: 1.0	Sample Date: 05/21/2019	Sample Time: 10:25:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Chloromethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Vinyl chloride	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Bromomethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Chloroethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Trichlorofluoromethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,1-Dichloroethene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Acetone	Target	250	U	ug/L	250	U	25.0	YES	S3VE
Carbon disulfide	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Methyl Acetate	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Methylene chloride	Target	130	U	ug/L	130	U	25.0	YES	S3VE
trans-1,2-Dichloroethene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Methyl tert-butyl Ether	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,1-Dichloroethane	Target	21	J	ug/L	21	J	25.0	YES	S3VE
cis-1,2-Dichloroethene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
2-Butanone	Target	250	U	ug/L	250	U	25.0	YES	S3VE
Bromochloromethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Chloroform	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,1,1-Trichloroethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Cyclohexane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Carbon tetrachloride	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Benzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,2-Dichloroethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Trichloroethene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Methylcyclohexane	Target	99	J	ug/L	99	J	25.0	YES	S3VE
1,2-Dichloropropane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Bromodichloromethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
cis-1,3-Dichloropropene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
4-Methyl-2-pentanone	Target	250	U	ug/L	250	U	25.0	YES	S3VE
Toluene	Target	10	J	ug/L	10	J	25.0	YES	S3VE
trans-1,3-Dichloropropene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,1,2-Trichloroethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Tetrachloroethene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
2-Hexanone	Target	250	U	ug/L	250	U	25.0	YES	S3VE
Dibromochloromethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,2-Dibromoethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Chlorobenzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Ethylbenzene	Target	2600		ug/L	2600		25.0	YES	S3VE
o-xylene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
m,p-Xylene	Target	4500		ug/L	4500		25.0	YES	S3VE
Styrene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Bromoform	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Isopropylbenzene	Target	92	J	ug/L	92	J	25.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,3-Dichlorobenzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,4-Dichlorobenzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,2-Dichlorobenzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,2,4-trichlorobenzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	130	U	ug/L	130	U	25.0	YES	S3VE
Benzene, 1,2,3-trimethyl-	TIC	110	JN	ug/L	110	JN	25.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, propyl-	TIC	130	JN	ug/L	130	JN	25.0	YES	NV
Benzene, 1,2,4-trimethyl-	TIC	120	JN	ug/L	120	JN	25.0	YES	NV
Total Alkanes	TIC		N	ug/L		N	25.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF7	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW002	pH: 1.0	Sample Date: 05/21/2019	Sample Time: 12:05:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Chloromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Vinyl chloride	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Bromomethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Chloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Trichlorofluoromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1-Dichloroethene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Acetone	Target	5000	U	ug/L	5000	U	500.0	YES	S3VE
Carbon disulfide	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Methyl Acetate	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Methylene chloride	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
trans-1,2-Dichloroethene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Methyl tert-butyl Ether	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1-Dichloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
2-Butanone	Target	5000	U	ug/L	5000	U	500.0	YES	S3VE
Bromochloromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Chloroform	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1,1-Trichloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Cyclohexane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Carbon tetrachloride	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Benzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2-Dichloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Trichloroethene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Methylcyclohexane	Target	780	J	ug/L	780	J	500.0	YES	S3VE
1,2-Dichloropropane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Bromodichloromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
cis-1,3-Dichloropropene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
4-Methyl-2-pentanone	Target	5000	U	ug/L	5000	U	500.0	YES	S3VE
Toluene	Target	88000		ug/L	88000		500.0	YES	S3VE
trans-1,3-Dichloropropene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1,2-Trichloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Tetrachloroethene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
2-Hexanone	Target	5000	U	ug/L	5000	U	500.0	YES	S3VE
Dibromochloromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2-Dibromoethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Chlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Ethylbenzene	Target	3700		ug/L	3700		500.0	YES	S3VE
o-xylene	Target	3200		ug/L	3200		500.0	YES	S3VE
m,p-Xylene	Target	11000		ug/L	11000		500.0	YES	S3VE
Styrene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Bromoform	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Isopropylbenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,3-Dichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,4-Dichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2-Dichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2,4-trichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	500.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF7MS	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 05/21/2019	Sample Time: 12:05:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Chloromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Vinyl chloride	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Bromomethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Chloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Trichlorofluoromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1-Dichloroethene	Spike	23000		ug/L	23000		500.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Acetone	Target	5000	U	ug/L	5000	U	500.0	YES	S3VE
Carbon disulfide	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Methyl Acetate	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Methylene chloride	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
trans-1,2-Dichloroethene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Methyl tert-butyl Ether	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1-Dichloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
2-Butanone	Target	5000	U	ug/L	5000	U	500.0	YES	S3VE
Bromochloromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Chloroform	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1,1-Trichloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Cyclohexane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Carbon tetrachloride	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Benzene	Spike	22000		ug/L	22000		500.0	YES	S3VE
1,2-Dichloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Trichloroethene	Spike	22000		ug/L	22000		500.0	YES	S3VE
Methylcyclohexane	Target	740	J	ug/L	740	J	500.0	YES	S3VE
1,2-Dichloropropane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Bromodichloromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
cis-1,3-Dichloropropene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
4-Methyl-2-pentanone	Target	5000	U	ug/L	5000	U	500.0	YES	S3VE
Toluene	Spike	110000	J	ug/L	110000	E	500.0	YES	S3VE
trans-1,3-Dichloropropene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1,2-Trichloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Tetrachloroethene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
2-Hexanone	Target	5000	U	ug/L	5000	U	500.0	YES	S3VE
Dibromochloromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2-Dibromoethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Chlorobenzene	Spike	23000		ug/L	23000		500.0	YES	S3VE
Ethylbenzene	Target	3900		ug/L	3900		500.0	YES	S3VE
o-xylene	Target	3300		ug/L	3300		500.0	YES	S3VE
m,p-Xylene	Target	11000		ug/L	11000		500.0	YES	S3VE
Styrene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Bromoform	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Isopropylbenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,3-Dichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,4-Dichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2-Dichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2,4-trichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	500.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF7MSD	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 05/21/2019	Sample Time: 12:05:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Chloromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Vinyl chloride	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Bromomethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Chloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Trichlorofluoromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1-Dichloroethene	Spike	23000		ug/L	23000		500.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Acetone	Target	5000	U	ug/L	5000	U	500.0	YES	S3VE
Carbon disulfide	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Methyl Acetate	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Methylene chloride	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
trans-1,2-Dichloroethene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Methyl tert-butyl Ether	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1-Dichloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
cis-1,2-Dichloroethene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
2-Butanone	Target	5000	U	ug/L	5000	U	500.0	YES	S3VE
Bromochloromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Chloroform	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1,1-Trichloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Cyclohexane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Carbon tetrachloride	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Benzene	Spike	22000		ug/L	22000		500.0	YES	S3VE
1,2-Dichloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Trichloroethene	Spike	22000		ug/L	22000		500.0	YES	S3VE
Methylcyclohexane	Target	730	J	ug/L	730	J	500.0	YES	S3VE
1,2-Dichloropropane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Bromodichloromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
cis-1,3-Dichloropropene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
4-Methyl-2-pentanone	Target	5000	U	ug/L	5000	U	500.0	YES	S3VE
Toluene	Spike	110000	J	ug/L	110000	E	500.0	YES	S3VE
trans-1,3-Dichloropropene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1,2-Trichloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Tetrachloroethene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
2-Hexanone	Target	5000	U	ug/L	5000	U	500.0	YES	S3VE
Dibromochloromethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2-Dibromoethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Chlorobenzene	Spike	23000		ug/L	23000		500.0	YES	S3VE
Ethylbenzene	Target	3900		ug/L	3900		500.0	YES	S3VE
o-xylene	Target	3300		ug/L	3300		500.0	YES	S3VE
m,p-Xylene	Target	11000		ug/L	11000		500.0	YES	S3VE
Styrene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Bromoform	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Isopropylbenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,3-Dichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,4-Dichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2-Dichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2,4-trichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	2500	U	ug/L	2500	U	500.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	500.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF8	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW004A	pH: 1.0	Sample Date: 05/21/2019	Sample Time: 13:30:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Vinyl chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromomethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichlorofluoromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Acetone	Target	99	J	ug/L	99	J	50.0	YES	S3VE
Carbon disulfide	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl Acetate	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylene chloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
trans-1,2-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methyl tert-butyl Ether	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,2-Dichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Butanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Bromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chloroform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,1-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Cyclohexane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Carbon tetrachloride	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Benzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Trichloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Methylcyclohexane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromodichloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
cis-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
4-Methyl-2-pentanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Toluene	Target	59000		ug/L	59000	D	1000.0	YES	S3VE
trans-1,3-Dichloropropene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2-Trichloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Tetrachloroethene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
2-Hexanone	Target	500	U	ug/L	500	U	50.0	YES	S3VE
Dibromochloromethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromoethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Chlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Ethylbenzene	Target	440		ug/L	440		50.0	YES	S3VE
o-xylene	Target	76	J	ug/L	76	J	50.0	YES	S3VE
m,p-Xylene	Target	630		ug/L	630		50.0	YES	S3VE
Styrene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Bromoform	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Isopropylbenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,3-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,4-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,4-trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	250	U	ug/L	250	U	50.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	50.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: VBLK22	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: VBLK23	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: VBLK24	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: VBLK25	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: VBLK42	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: VBLK43	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: VHBLK01	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Toluene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S3VE
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48274/EPW14030/E3YE8** | **Lab Name: Chemtech Consulting Group**

Sample Number: VHBLK02	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date:	Sample Time:
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S3VE
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
o-Xylene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Isopropylbenzene	Target	0.50	R	ug/L	0.50	U	1.0	YES	S3VE
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S3VE
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Southeast Rockford Area 11 - Semi Annual 2019 Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 19050775
Laboratory: STAT Analysis Corporation and Eurofins TestAmerica Laboratories, Inc.

Matrix: Groundwater
Collection date: 05/20/19
Analysis/Methods:

Dissolved Gases in Water (Methane) - Method RSKSOP-175
Nitrate and Nitrite (Nitrogen, Nitrate-Nitrite) - Method E300.0
Sulfate in Water (Sulfate) - Method E300.0
Alkalinity (Alkalinity, Total (As CaCO3) - Method 2320 B

Samples in SDG:

STAT Lab ID	Test America Lab ID	Sample Number
19050775-001	490-174551-1	All-MW006-190520
19050775-002	490-174551-2	All-MW005-190520
19050775-003	490-174551-3	All-MW001-190520
19050775-004	490-174551-4	All-MW004B-190520

Data validation was performed in accordance with the specific analytical methods, National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017) and National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Methane (RSK-175) and Wet Chemistry Parameters

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)	**Yes**		
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
N/A					

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite 19050775-002BMS/BMSD	Acceptable	20%		
Sulfate 19050775-002BMS/BMSD	Acceptable	20%		
Alkalinity 19050775-002BMS/MSD	Acceptable	20%		
Methane 490-174551-2MS/MSD	Acceptable	30%		

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes No N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**Yes**
Laboratory Control Sample criteria met?	**Yes**
Were the Laboratory Method Blank results all < RL?	**No**
Were the Field Blanks results all < RL?	**N/A**
Was the ICAL criteria met?	**Yes**
Was the CCV criteria met?	**Yes**
Was the Tuning criteria met?	**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?	**Yes**
Were the Internal Standard areas within ± 50 - 150%?	**N/A**

Comments (note deviations):

Blanks	**Concentration (mg/L)**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite ICMBW1 052819	0.061	1	None	Sample results nondetect or > PQL
Sulfate ICMBW1 052819	0.539	20	None	Sample results nondetect or > PQL
Alkalinity ALKMBW1 052819	Nondetect			
Methane MB 490-599253 / 5	Nondetect			

ICB/CCB	**Concentration (mg/L)**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
Nitrogen	0.066/0.054/0.066	1	None	Sample results nondetect or > PQL
Sulfate	0.551/0.534/0.54	20	None	Sample results nondetect or > PQL

Field Blank	**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
N/A				

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
Methane	Acceptable			

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite 19050775-002BMS/BMSD	Acceptable	75-125		
Sulfate 19050775-002BMS/BMSD	Acceptable	75-125		
Alkalinity 19050775-002BMS / BMSD	Acceptable	75-125		
Methane 490-174551-2MS/MSD	Acceptable	80-120		

LCS/LCSD	**%R**	**Limits**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite ICLCSW1 052819	Acceptable	80-120		
Sulfate ICLCSW1 052819	Acceptable	80-120		
Alkalinity ALKMBW1 052819	Acceptable	80-120		
Methane LCS 490-599253 / 6	Acceptable	70-130		

ICAL	RRF	%RSD	Qualifiers	Associated Samples
Methane				
May 20 - 12:33	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
Methane					
June 3 - 9:16	Acceptable	Acceptable			
June 3 - 11:59	Acceptable	Acceptable			

ICV / CCV	%R	Limits	Qualifiers	Associated Samples
Not Reported				

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes No N/A
Were sampling procedures and design criteria met?	Yes
Were holding times met?	Yes
Was preservation criteria met? (0° C - 6° C)	Yes
Were Chain-of-Custody records complete and provided in data package?	Yes

Comments (note deviations): The cooler temperatures were 2.9 & 4.6 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes No N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes

Comments (note deviations):

Completeness (90%):	Yes No N/A
Are all data in this SDG usable?	Yes

Comments (note deviations):

Sensitivity:	Yes No N/A
Are MDLs present and reported?	Yes
Do the reporting limits meet project requirements?	Yes

Comments (note deviations):

Comment:
Data is usable as reported.

Data Validator: Kristine Molloy Date: 2/8/2020

Data Reviewer: Cherie Zakowski Date: 2/9/2020

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: June 06, 2019
Date Printed: June 06, 2019

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 231605, SE Rockford Area II Semi-Annual GW Samplin **Work Order:** 19050775 Revision 0

Lab ID: 19050775-001 **Collection Date:** 5/20/2019 11:27:00 AM
Client Sample ID: All-MW006-190520 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	6.5	0.20		mg/L	1	6/3/2019
Anions by Ion Chromatography	**E300.0**			Prep Date:	**5/28/2019**	Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	1.0	*	mg/L	5	5/28/2019
Sulfate	ND	20	*	mg/L	5	5/28/2019
Alkalinity	**M2320 B**			Prep Date:	**5/28/2019**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	450	20		mg/L CaCO3	1	5/28/2019

Lab ID: 19050775-002 **Collection Date:** 5/20/2019 1:43:00 PM
Client Sample ID: All-MW005-190520 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.0050		mg/L	1	6/3/2019
Anions by Ion Chromatography	**E300.0**			Prep Date:	**5/28/2019**	Analyst: **MD**
Nitrogen, Nitrate (As N)	4.5	1.0	*	mg/L	5	5/28/2019
Sulfate	50	20	*	mg/L	5	5/28/2019
Alkalinity	**M2320 B**			Prep Date:	**5/28/2019**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	370	20		mg/L CaCO3	1	5/28/2019

Lab ID: 19050775-003 **Collection Date:** 5/20/2019 3:25:00 PM
Client Sample ID: All-MW001-190520 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.0050		mg/L	1	6/3/2019
Anions by Ion Chromatography	**E300.0**			Prep Date:	**5/28/2019**	Analyst: **MD**
Nitrogen, Nitrate (As N)	2.5	1.0	*	mg/L	5	5/28/2019
Sulfate	31	20	*	mg/L	5	5/28/2019
Alkalinity	**M2320 B**			Prep Date:	**5/28/2019**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	350	20		mg/L CaCO3	1	5/28/2019

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: June 06, 2019
Date Printed: June 06, 2019

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 231605, SE Rockford Area II Semi-Annual GW Samplin **Work Order:** 19050775 Revision 0

Lab ID: 19050775-004 **Collection Date:** 5/20/2019 5:13:00 PM
Client Sample ID: All-MW004B-190520 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.0050		mg/L	1	6/3/2019
Anions by Ion Chromatography	**E300.0**			Prep Date:	**5/28/2019**	Analyst: **MD**
Nitrogen, Nitrate (As N)	1.5	1.0	*	mg/L	5	5/28/2019
Sulfate	23	20	*	mg/L	5	5/28/2019
Alkalinity	**M2320 B**			Prep Date:	**5/28/2019**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	350	20		mg/L CaCO3	1	5/28/2019

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Client Sample Results

Client: STAT Analysis Corp
Project/Site: Methane in Water

Job ID: 490-174551-1

Client Sample ID: A11-MW006-190520
Lab Sample ID: 490-174551-1
Date Collected: 05/20/19 11:27
Matrix: Water
Date Received: 05/23/19 09:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**6.5**		0.20	0.068	mg/L			06/03/19 11:50	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*74*		*70 - 130*		*06/03/19 11:50*	*40*

Client Sample ID: A11-MW005-190520
Lab Sample ID: 490-174551-2
Date Collected: 05/20/19 13:43
Matrix: Water
Date Received: 05/23/19 09:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.0017	U	0.0050	0.0017	mg/L			06/03/19 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*92*		*70 - 130*		*06/03/19 11:09*	*1*

Client Sample ID: A11-MW001-190520
Lab Sample ID: 490-174551-3
Date Collected: 05/20/19 15:25
Matrix: Water
Date Received: 05/23/19 09:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.0017	U	0.0050	0.0017	mg/L			06/03/19 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*98*		*70 - 130*		*06/03/19 11:29*	*1*

Client Sample ID: A11-MW004B-190520
Lab Sample ID: 490-174551-4
Date Collected: 05/20/19 17:13
Matrix: Water
Date Received: 05/23/19 09:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.0017	U	0.0050	0.0017	mg/L			06/03/19 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Acetylene (Surr)	*100*		*70 - 130*		*06/03/19 11:37*	*1*

Southeast Rockford Area 11 - Semi Annual 2019 Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 19050829
Laboratory: STAT Analysis Corporation and Eurofins TestAmerica Laboratories, Inc.

Matrix: Groundwater
Collection date: 05/21/19
Analysis/Methods:

Dissolved Gases in Water (Methane) - Method RSKSOP-175
Nitrate and Nitrite (Nitrogen, Nitrate-Nitrite) - Method E300.0
Sulfate in Water (Sulfate) - Method E300.0
Alkalinity (Alkalinity, Total (As CaCO3) - Method 2320 B

Samples in SDG:

STAT Lab ID	Test America Lab ID	Sample Number
19050829-001	490-174549-1	ALL-MW003-190521
19050829-002	490-174549-2	ALL-MW007-190521
19050829-003	490-174549-3	ALL-MW007-190521-D
19050829-004	490-174549-4	ALL-MW002-190521
19050829-005	490-174549-5	ALL-MW004A-190521

Data validation was performed in accordance with the specific analytical methods, National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017) and National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Methane (RSK-175) and Wet Chemistry Parameters

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?	**Yes**		
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)	**Yes**		
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	ALL-MW007-190521	ALL-MW007-190521-D	Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite 19050829-001BMS/BMSD (5/31/2019)	Acceptable	20%		
Nitrogen, Nitrate-Nitrite 19050829-001BMS/BMSD (06/04/2019)	Acceptable	20%		
Sulfate 19050829-001BMS/BMSD (5/31/2019)	Acceptable	20%		
Sulfate 19050829-001BMS/BMSD (6/04/2019)	Acceptable	20%		
Alkalinity 19050775-002BMS/MSD	Acceptable	20%		
Methane N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes No N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**Yes**
Laboratory Control Sample criteria met?	**Yes**
Were the Laboratory Method Blank results all < RL?	**No**
Were the Field Blanks results all < RL?	**N/A**
Was the ICAL criteria met?	**Yes**
Was the CCV criteria met?	**Yes**
Was the Tuning criteria met?	**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?	**Yes**
Were the Internal Standard areas within ± 50 - 150%?	**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite ICMBW1 053119	0.05	0.2	None	Sample results nondetect
Nitrogen, Nitrate-Nitrite ICMBW1 060419	0.051	0.2	None	Sample results nondetect
Sulfate ICMBW1 053119	0.57	4.0	None	Sample results nondetect or > PQL
Sulfate ICMBW1 060419	0.641	4.0	None	Sample results nondetect or > PQL
Alkalinity ALKMBW1 052819	Nondetect			
Methane MB 490-599346 / 34	Nondetect			

ICB/CCB	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
Not reported				

Field Blank	**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
N/A				

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
Methane	Acceptable			

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite 19050829-001BMS/BMSD (5/31/2019)	Acceptable	75-125		
Nitrogen, Nitrate-Nitrite 19050829-001BMS/BMSD (06/04/2019)	Acceptable	75-125		
Sulfate 19050829-001BMS/BMSD (5/31/2019)	Acceptable	75-125		
Sulfate 19050829-001BMS/BMSD (06/04/2019)	Acceptable	75-125		
Alkalinity 19050775-002BMS / BMSD	Acceptable	75-125		
Methane N/A				

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Nitrogen, Nitrate-Nitrite ICLCSW1 053119	Acceptable	80-120		
Nitrogen, Nitrate-Nitrite ICLCSW1 060419	Acceptable	80-120		
Sulfate ICLCSW1 053119	Acceptable	80-120		
Sulfate ICLCSW1 060419	Acceptable	80-120		
Alkalinity ALKMBW1 052819	Acceptable	80-120		
Methane LCS 490-599346 / 34	Acceptable	70-130		

ICAL	RRF	%RSD	Qualifiers	Associated Samples
Methane				
May 20 - 12:33	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
Methane					
June 3 - 12:11	Acceptable	Acceptable			
June 3 - 14:34	Acceptable	Acceptable			

ICV / CCV	%R	Limits	Qualifiers	Associated Samples
Not Reported				

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes No N/A
Were sampling procedures and design criteria met?	Yes
Were holding times met?	Yes
Was preservation criteria met? (0° C - 6° C)	Yes
Were Chain-of-Custody records complete and provided in data package?	Yes

Comments (note deviations): The cooler temperatures were 3.6 & 4.6 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability: Yes No N/A

Were analytical procedures and methods followed as defined in the QAPP or field change documentation? **Yes**

Comments (note deviations):

Completeness (90%): Yes No N/A

Are all data in this SDG usable? **Yes**

Comments (note deviations):

Sensitivity: Yes No N/A

Are MDLs present and reported? **Yes**

Do the reporting limits meet project requirements? **Yes**

Comments (note deviations):

Comment:

Data is usable as reported.

Data Validator: Kristine Molloy Date: 2/9/2020

Data Reviewer: Cherie Zakowski Date: 2/10/2020

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: June 06, 2019
Date Printed: June 06, 2019

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 231605, SE Rockford Area 11 Semi-Annual GW Samplin **Work Order:** 19050829 Revision 0

Lab ID: 19050829-001 **Collection Date:** 5/21/2019 8:50:00 AM
Client Sample ID: ALL-MW003-190521 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	15	0.20		mg/L	1	6/3/2019
Anions by Ion Chromatography	**E300.0**			Prep Date:	**6/4/2019**	Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	6/4/2019
Sulfate	ND	4.0	*	mg/L	1	6/4/2019
Alkalinity	**M2320 B**			Prep Date:	**5/28/2019**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	420	20		mg/L CaCO3	1	5/28/2019

Lab ID: 19050829-002 **Collection Date:** 5/21/2019 10:25:00 AM
Client Sample ID: ALL-MW007-190521 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	25	0.20		mg/L	1	6/3/2019
Anions by Ion Chromatography	**E300.0**			Prep Date:		Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	1.0	*	mg/L	5	5/31/2019
Sulfate	ND	20	*	mg/L	5	5/31/2019
Alkalinity	**M2320 B**			Prep Date:	**5/28/2019**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	560	20		mg/L CaCO3	1	5/28/2019

Lab ID: 19050829-003 **Collection Date:** 5/21/2019 10:25:00 AM
Client Sample ID: ALL-MW007-190521-D **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	22	0.20		mg/L	1	6/3/2019
Anions by Ion Chromatography	**E300.0**			Prep Date:		Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	1.0	*	mg/L	5	5/31/2019
Sulfate	ND	20	*	mg/L	5	5/31/2019
Alkalinity	**M2320 B**			Prep Date:	**5/28/2019**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	540	20		mg/L CaCO3	1	5/28/2019

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: June 06, 2019
Date Printed: June 06, 2019

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 231605, SE Rockford Area 11 Semi-Annual GW Samplin **Work Order:** 19050829 Revision 0

Lab ID: 19050829-004 **Collection Date:** 5/21/2019 12:05:00 PM
Client Sample ID: ALL-MW002-190521 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	20	0.20		mg/L	1	6/3/2019
Anions by Ion Chromatography	**E300.0**			Prep Date:		Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	1.0	*	mg/L	5	5/31/2019
Sulfate	ND	20	*	mg/L	5	5/31/2019
Alkalinity	**M2320 B**			Prep Date:	**5/28/2019**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	370	20		mg/L CaCO3	1	5/28/2019

Lab ID: 19050829-005 **Collection Date:** 5/21/2019 1:30:00 PM
Client Sample ID: ALL-MW004A-190521 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.17	0.0050		mg/L	1	6/3/2019
Anions by Ion Chromatography	**E300.0**			Prep Date:		Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	1.0	*	mg/L	5	5/31/2019
Sulfate	30	20	*	mg/L	5	5/31/2019
Alkalinity	**M2320 B**			Prep Date:	**5/28/2019**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	330	20		mg/L CaCO3	1	5/28/2019

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Client Sample Results

Client: STAT Analysis Corp
Project/Site: Methane in Water

Job ID: 490-174549-1

Client Sample ID: A11-MW003-190521
Lab Sample ID: 490-174549-1
Date Collected: 05/21/19 08:50
Matrix: Water
Date Received: 05/23/19 09:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	15		0.20	0.068	mg/L			06/03/19 14:20	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	102		70 - 130		06/03/19 14:20	40

Client Sample ID: A11-MW007-190521
Lab Sample ID: 490-174549-2
Date Collected: 05/21/19 10:25
Matrix: Water
Date Received: 05/23/19 09:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	25		0.20	0.068	mg/L			06/03/19 14:23	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	99		70 - 130		06/03/19 14:23	40

Client Sample ID: A11-MW007-190521D
Lab Sample ID: 490-174549-3
Date Collected: 05/21/19 10:25
Matrix: Water
Date Received: 05/23/19 09:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	22		0.20	0.068	mg/L			06/03/19 14:26	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	91		70 - 130		06/03/19 14:26	40

Client Sample ID: A11-MW002-190521
Lab Sample ID: 490-174549-4
Date Collected: 05/21/19 12:05
Matrix: Water
Date Received: 05/23/19 09:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	20		0.20	0.068	mg/L			06/03/19 14:29	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	103		70 - 130		06/03/19 14:29	40

Client Sample ID: A11-MW004A-190521
Lab Sample ID: 490-174549-5
Date Collected: 05/21/19 13:30
Matrix: Water
Date Received: 05/23/19 09:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.17		0.0050	0.0017	mg/L			06/03/19 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	112		70 - 130		06/03/19 14:01	1

November 2019 Data Validation Files and Data Packages

Southeast Rockford Area 11 - Semi Annual 2019 Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: E191105
Laboratory: ESAT

Matrix: Groundwater
Collection date: 11/12/2019 & 11/13/2019
Analysis/Methods:

Voaltile Organic Compounds (VOCs) 8260
1,4-Dioxane - SW-846 8000D SIM

Samples in SDG:

ESAT Lab ID	Sample Number	ESAT Lab ID	Sample Number
E191105-01	A11-FB001-191112	E191105-07	A11-MW005-191112
E191105-02	A11-MW001-191112	E191105-08	A11-MW006-191112
E191105-03	A11-MW002-191112	E191105-09	A11-MW007-191112
E191105-04	A11-MW003-191112	E191105-10	A11-MW007-191112-D
E191105-05	A11-MW004A-191112	E191105-11	A11-TB001-191112
E191105-06	A11-MW004B-191112		

Data validation was performed in accordance with the specific analytical methods, National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Volatile Organic Compounds 8260 / 1,4-Dioxane 8000D

Precision:	**Yes No N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?	**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)	**Yes**
Laboratory Control Spike Duplicates RPD within limits?	**Yes**
Laboratory Duplicate RPDs within limits?	**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW007-191112	**A11-MW007-191112-D**			
1,4-Dioxane			Acceptable		
VOCs			Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
1,4-Dioxane				
E19K007-MS1 / MSD1	Acceptable			
E19K007-MS2 / MSD2	Acceptable			

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
1,4-Dioxane				
E19K007-BS1 / BSD1	Acceptable			

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes No N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**No**
Laboratory Control Sample criteria met?	**No**
Were the Laboratory Method Blank results all < RL?	**Yes**
Were the Field Blanks results all < RL?	**Yes**
Was the ICAL criteria met?	**Yes**
Was the CCV criteria met?	**Yes**
Was the Tuning criteria met?	**Yes**
Were the Surrogate % recoveries within laboratory determined control limits?	**Yes**
Were the Internal Standard areas within ± 50 - 150%?	**N/A**

Comments (note deviations):

Blanks		Concentration	MDL /PQL	Qualifiers	Associated Samples
1,4-Dioxane					
E19K007-BLK1		Nondetect			
VOCs					
E19K008-BLK1		Nondetect			
E19K014-BLK1		Nondetect			
E19K014-BLK2		Nondetect			
E19K014-BLK3		Nondetect			

Field Blank		Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-191112		Nondetect			
A11-TB001-191112		Nondetect			

Surrogates		%R	Limit	Qualifiers	Associated Samples
		Acceptable			

MS/MSD		%R	Limits (%)	Qualifiers	Associated Samples
1,4-Dioxane					
E19K007-MS1 / MSD1		Acceptable			
E19K007-MS2 / MSD2		Acceptable			
VOCs					
E19K014-MS1/MSD1		Acceptable			
E19K014-MS2					
(E191105-03)	Toluene	257 / 143	60-140	**J**	**E191105-03**
	Ethylbenzene	156 / 112	60-140	**J**	**E191105-03**
	m.p-xylene	165 / 113	60-140	**J**	**E191105-03**

LCS/LCSD	Analyte	%R	Limits	Qualifiers	Associated Samples
1,4-Dioxane					
E19K007-BS1 / BSD1		Acceptable			
E19K007-MRL1		Acceptable			
VOCs					
E19K008-BS1		Acceptable			
E19K008-MRL1		Acceptable			
E19K014-BS1/BSD1					
	2,2-Dichloropropane	117 / 65.1	70-130	**J/UJ**	**E191105-03 through E191105-05, E191105-07 through E191105-11**
E19K014-BS2					
	Dichlorodifluoromethane	57.9	70-130	**J/UJ**	**E191105-03, -05, -10**
	Chloromethane	65.1	70-130	**J/UJ**	**E191105-03, -05, -10**

ICAL	RRF	%RSD	Qualifiers	Associated Samples
1,4-Dioxane				
September 20, 2019	Acceptable	Acceptable		
VOCs				
November 22, 2019	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
1,4-Dioxane					
September 20, 2019	Acceptable	Acceptable			
VOCs					
November 22, 2019	Acceptable	Acceptable			

ICV / CCV	%R	Limits	Qualifiers	Associated Samples
N/A				

Tune
Acceptable

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperature was 3.6 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifiers	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifiers	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:
Data is usable with appropriate qualifers applied.

Data Validator: Kristine Molloy Date: 2/20/2020

Data Reviewer: Cherie Zakowski Date: 2/21/2020

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-31-19 12:43

1,4-Dioxane by GC-MS
TechLaw - ESAT Contract

A11-FB001-191112 (E191105-01) **Matrix: Water** **Sampled: Nov-12-19 16:00** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.207	ug/L	1	E19K007	Nov-18-19	Nov-18-19

Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.871			*84.4%*		*70-130*	"	"	"

A11-MW001-191112 (E191105-02) **Matrix: Water** **Sampled: Nov-12-19 13:45** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**12.2**			0.207	ug/L	1	E19K007	Nov-18-19	Nov-18-19

Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.860			*83.3%*		*70-130*	"	"	"

A11-MW002-191113 (E191105-03) **Matrix: Water** **Sampled: Nov-13-19 12:15** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**4.42**			0.203	ug/L	1	E19K007	Nov-18-19	Nov-18-19

Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.971			*95.5%*		*70-130*	"	"	"

A11-MW003-191113 (E191105-04) **Matrix: Water** **Sampled: Nov-13-19 09:10** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**12.0**			0.205	ug/L	1	E19K007	Nov-18-19	Nov-18-19

Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.876			*85.5%*		*70-130*	"	"	"

A11-MW004A-191113 (E191105-05) **Matrix: Water** **Sampled: Nov-13-19 13:45** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**1.20**			0.203	ug/L	1	E19K007	Nov-18-19	Nov-18-19

Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.850			*83.6%*		*70-130*	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-31-19 12:43

1,4-Dioxane by GC-MS

TechLaw - ESAT Contract

A11-MW004B-191112 (E191105-06) **Matrix: Water** **Sampled: Nov-12-19 15:35** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**13.4**			0.205	ug/L	1	E19K007	Nov-18-19	Nov-18-19

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.880	*85.8%*	*70-130*	"	"	"

A11-MW005-191112 (E191105-07) **Matrix: Water** **Sampled: Nov-12-19 11:15** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**7.63**			0.208	ug/L	1	E19K007	Nov-18-19	Nov-18-19

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.903	*86.6%*	*70-130*	"	"	"

A11-MW006-191113 (E191105-08) **Matrix: Water** **Sampled: Nov-13-19 09:10** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**1.02**			0.202	ug/L	1	E19K007	Nov-18-19	Nov-18-19

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.891	*88.4%*	*70-130*	"	"	"

A11-MW007-191113 (E191105-09) **Matrix: Water** **Sampled: Nov-13-19 10:30** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**0.278**			0.200	ug/L	1	E19K007	Nov-18-19	Nov-18-19

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.860	*86.0%*	*70-130*	"	"	"

A11-MW007-191113-D (E191105-10) **Matrix: Water** **Sampled: Nov-13-19 10:30** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**0.293**			0.203	ug/L	1	E19K007	Nov-18-19	Nov-18-19

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.891	*87.7%*	*70-130*	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-31-19 12:43

1,4-Dioxane by GC-MS
TechLaw - ESAT Contract

A11-TB001-191112 (E191105-11) **Matrix: Water** **Sampled: Nov-12-19 08:00** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.202	ug/L	1	E19K007	Nov-18-19	Nov-18-19

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.840	*83.3%*	*70-130*	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-31-19 12:43

1,4-Dioxane by GC-MS - Quality Control
TechLaw - ESAT Contract

Batch E19K007 - EPA 522

Blank (E19K007-BLK1) — **Prepared & Analyzed: Nov-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**U**			0.205	ug/L						
Surrogate: 1,4-Dioxane-d8	*0.853*				"	*1.02*		*83.2%*	*70-130*		

LCS (E19K007-BS1) — **Prepared & Analyzed: Nov-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**0.872**			0.200	ug/L	1.00		87.2%	70-130		
Surrogate: 1,4-Dioxane-d8	*0.824*				"	*1.00*		*82.4%*	*70-130*		

LCS Dup (E19K007-BSD1) — **Prepared & Analyzed: Nov-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**0.845**			0.207	ug/L	1.03		81.8%	70-130	6.39	30
Surrogate: 1,4-Dioxane-d8	*0.865*				"	*1.03*		*83.7%*	*70-130*		

MRL Check (E19K007-MRL1) — **Prepared & Analyzed: Nov-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**0.178**	J		0.203	ug/L	0.203		87.4%	50-150		
Surrogate: 1,4-Dioxane-d8	*0.808*				"	*1.02*		*79.5%*	*70-130*		

Matrix Spike (E19K007-MS1) — **Source: E191105-03** — **Prepared & Analyzed: Nov-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**5.35**			0.202	ug/L	1.01	4.42	92.3%	70-130		
Surrogate: 1,4-Dioxane-d8	*0.934*				"	*1.01*		*92.6%*	*70-130*		

Matrix Spike (E19K007-MS2) — **Source: E191105-07** — **Prepared & Analyzed: Nov-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**8.76**			0.212	ug/L	1.06	7.63	106%	70-130		
Surrogate: 1,4-Dioxane-d8	*0.924*				"	*1.06*		*87.2%*	*70-130*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-31-19 12:43

1,4-Dioxane by GC-MS - Quality Control
TechLaw - ESAT Contract

Batch E19K007 - EPA 522

Matrix Spike Dup (E19K007-MSD1) **Source: E191105-03** **Prepared & Analyzed: Nov-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**5.32**			0.205	ug/L	1.02	4.42	88.0%	70-130	4.75	30
Surrogate: 1,4-Dioxane-d8	*0.923*				"	*1.02*		*90.1%*	*70-130*		

Matrix Spike Dup (E19K007-MSD2) **Source: E191105-07** **Prepared & Analyzed: Nov-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**8.81**			0.202	ug/L	1.01	7.63	116%	70-130	9.17	30
Surrogate: 1,4-Dioxane-d8	*0.826*				"	*1.01*		*82.0%*	*70-130*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-31-19 12:43

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-FB001-191112 (E191105-01) **Matrix: Water** **Sampled: Nov-12-19 16:00** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U			2.00	ug/L	1	E19K008	Nov-21-19	Nov-22-19
Chloromethane	U			2.00	"	"	"	"	"
Vinyl chloride	U			2.00	"	"	"	"	"
Bromomethane	U			2.00	"	"	"	"	"
Chloroethane	U			2.00	"	"	"	"	"
Trichlorofluoromethane	U			2.00	"	"	"	"	"
1,1-Dichloroethene	U			2.00	"	"	"	"	"
Methylene chloride	U			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	U			2.00	"	"	"	"	"
Methyl tert-butyl ether	U			2.00	"	"	"	"	"
1,1-Dichloroethane	U			2.00	"	"	"	"	"
2,2-Dichloropropane	U			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	U			2.00	"	"	"	"	"
Bromochloromethane	U			2.00	"	"	"	"	"
Chloroform	U			2.00	"	"	"	"	"
1,1,1-Trichloroethane	U			2.00	"	"	"	"	"
Carbon Tetrachloride	U			2.00	"	"	"	"	"
1,1-Dichloropropene	U			2.00	"	"	"	"	"
Benzene	U			2.00	"	"	"	"	"
1,2-Dichloroethane	U			2.00	"	"	"	"	"
Trichloroethene	U			2.00	"	"	"	"	"
1,2-Dichloropropane	U			2.00	"	"	"	"	"
Dibromomethane	U			2.00	"	"	"	"	"
Bromodichloromethane	U			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	U			2.00	"	"	"	"	"
Toluene	U			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	U			2.00	"	"	"	"	"
1,1,2-Trichloroethane	U			2.00	"	"	"	"	"
Tetrachloroethene	U			2.00	"	"	"	"	"
1,3-Dichloropropane	U			2.00	"	"	"	"	"
Dibromochloromethane	U			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			2.00	"	"	"	"	"
Chlorobenzene	U			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			2.00	"	"	"	"	"
Ethylbenzene	U			2.00	"	"	"	"	"
m,p-Xylene	U			4.00	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-FB001-191112 (E191105-01) **Matrix: Water** **Sampled: Nov-12-19 16:00** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
o-Xylene	**U**			2.00	ug/L	1	E19K008	Nov-21-19	Nov-22-19
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.60	*96.0%*	*73-114*	"	"	"
1,2-Dichloroethane-d4	9.96	*99.6%*	*86-114*	"	"	"
Toluene-d8	9.67	*96.7%*	*91-107*	"	"	"
4-Bromofluorobenzene	10.1	*101%*	*88-107*	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW001-191112 (E191105-02) **Matrix: Water** **Sampled: Nov-12-19 13:45** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	E19K008	Nov-21-19	Nov-22-19
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
Methyl tert-butyl ether	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**5.25**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**7.21**			2.00	"	"	"	"	"
Carbon Tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m,p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW001-191112 (E191105-02) **Matrix: Water** **Sampled: Nov-12-19 13:45** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Styrene	**U**			2.00	ug/L	1	E19K008	Nov-21-19	Nov-22-19
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.86	*98.6%*	*73-114*	"	"	"
1,2-Dichloroethane-d4	10.2	*102%*	*86-114*	"	"	"
Toluene-d8	9.88	*98.8%*	*91-107*	"	"	"
4-Bromofluorobenzene	9.50	*95.0%*	*88-107*	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW002-191113 (E191105-03) **Matrix: Water** **Sampled: Nov-13-19 12:15** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	J		200	ug/L	100	E19K014	Nov-25-19	Nov-26-19
Chloromethane	**U**	J		200	"	"	"	"	"
Vinyl chloride	**U**			200	"	"	"	"	"
Bromomethane	**U**			200	"	"	"	"	"
Chloroethane	**U**			200	"	"	"	"	"
Trichlorofluoromethane	**U**			200	"	"	"	"	"
1,1-Dichloroethene	**U**			200	"	"	"	"	"
Methylene chloride	**U**			200	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			200	"	"	"	"	"
Methyl tert-butyl ether	**U**			200	"	"	"	"	"
1,1-Dichloroethane	**U**			200	"	"	"	"	"
2,2-Dichloropropane	**U**	J		200	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			200	"	"	"	"	"
Bromochloromethane	**U**			200	"	"	"	"	"
Chloroform	**U**			200	"	"	"	"	"
1,1,1-Trichloroethane	**U**			200	"	"	"	"	"
Carbon Tetrachloride	**U**			200	"	"	"	"	"
1,1-Dichloropropene	**U**			200	"	"	"	"	"
Benzene	**U**			200	"	"	"	"	"
1,2-Dichloroethane	**U**			200	"	"	"	"	"
Trichloroethene	**U**			200	"	"	"	"	"
1,2-Dichloropropane	**U**			200	"	"	"	"	"
Dibromomethane	**U**			200	"	"	"	"	"
Bromodichloromethane	**U**			200	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			200	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			200	"	"	"	"	"
1,1,2-Trichloroethane	**U**			200	"	"	"	"	"
Tetrachloroethene	**U**			200	"	"	"	"	"
1,3-Dichloropropane	**U**			200	"	"	"	"	"
Dibromochloromethane	**U**			200	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			200	"	"	"	"	"
Chlorobenzene	**U**			200	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			200	"	"	"	"	"
Ethylbenzene	**4420**			200	"	"	"	"	"
m,p-Xylene	**12500**			400	"	"	"	"	"
o-Xylene	**2430**			200	"	"	"	"	"
Styrene	**371**			200	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW002-191113 (E191105-03) **Matrix: Water** **Sampled: Nov-13-19 12:15** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromoform	**U**			200	ug/L	100	E19K014	Nov-25-19	Nov-26-19
Isopropylbenzene	**U**			200	"	"	"	"	"
Bromobenzene	**U**			200	"	"	"	"	"
1,2,3-Trichloropropane	**U**			200	"	"	"	"	"
n-Propylbenzene	**U**			200	"	"	"	"	"
2-Chlorotoluene	**U**			200	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			200	"	"	"	"	"
4-Chlorotoluene	**U**			200	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			200	"	"	"	"	"
tert-Butylbenzene	**U**			200	"	"	"	"	"
1,2,4-Trimethylbenzene	**403**			200	"	"	"	"	"
sec-Butylbenzene	**U**			200	"	"	"	"	"
1,3-Dichlorobenzene	**U**			200	"	"	"	"	"
p-Isopropyltoluene	**U**			200	"	"	"	"	"
1,4-Dichlorobenzene	**U**			200	"	"	"	"	"
1,2-Dichlorobenzene	**U**			200	"	"	"	"	"
n-Butylbenzene	**U**			200	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			200	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			200	"	"	"	"	"
Hexachlorobutadiene	**U**			200	"	"	"	"	"
Naphthalene	**U**			200	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			200	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.65	*96.5%*	*73-114*	"	"	"
1,2-Dichloroethane-d4	10.1	*101%*	*86-114*	"	"	"
Toluene-d8	9.99	*99.9%*	*91-107*	"	"	"
4-Bromofluorobenzene	9.42	*94.2%*	*88-107*	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW002-191113 (E191105-03RE1) **Matrix: Water** **Sampled: Nov-13-19 12:15** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**22500**	K		2000	ug/L	1000	E19K014	Nov-25-19	Nov-25-19

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.73	*97.3%*	*73-114*	"	"	"
1,2-Dichloroethane-d4	9.78	*97.8%*	*86-114*	"	"	"
Toluene-d8	9.87	*98.7%*	*91-107*	"	"	"
4-Bromofluorobenzene	9.46	*94.6%*	*88-107*	"	"	"

A11-MW003-191113 (E191105-04) **Matrix: Water** **Sampled: Nov-13-19 09:10** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			10.0	ug/L	5	E19K014	Nov-25-19	Nov-25-19
Chloromethane	**U**			10.0	"	"	"	"	"
Vinyl chloride	**U**			10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**			10.0	"	"	"	"	"
Trichlorofluoromethane	**U**			10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
Methyl tert-butyl ether	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**	J		10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon Tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromomethane	**U**			10.0	"	"	"	"	"
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
Toluene	**133**			10.0	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW003-191113 (E191105-04) **Matrix: Water** **Sampled: Nov-13-19 09:10** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
trans-1,3-Dichloropropene	**U**			10.0	ug/L	5	E19K014	Nov-25-19	Nov-25-19
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
Ethylbenzene	**144**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**31.7**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**33.6**			10.0	"	"	"	"	"
2-Chlorotoluene	**10.3**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**47.1**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**137**			10.0	"	"	"	"	"
sec-Butylbenzene	**U**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**13.8**			10.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			10.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.82	*98.2%*	*73-114*	"	"	"
1,2-Dichloroethane-d4	9.88	*98.8%*	*86-114*	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS
TechLaw - ESAT Contract

A11-MW003-191113 (E191105-04) **Matrix: Water** **Sampled: Nov-13-19 09:10** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
Toluene-d8	10.1			*101%*		*91-107*	*E19K014*	*Nov-25-19*	*Nov-25-19*
4-Bromofluorobenzene	9.86			*98.6%*		*88-107*	"	"	"

A11-MW003-191113 (E191105-04RE1) **Matrix: Water** **Sampled: Nov-13-19 09:10** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
m,p-Xylene	**2910**			100	ug/L	25	E19K014	Nov-25-19	Nov-25-19
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.72			*97.2%*		*73-114*	"	"	"
1,2-Dichloroethane-d4	10.1			*101%*		*86-114*	"	"	"
Toluene-d8	9.83			*98.3%*		*91-107*	"	"	"
4-Bromofluorobenzene	9.46			*94.6%*		*88-107*	"	"	"

A11-MW004A-191113 (E191105-05) **Matrix: Water** **Sampled: Nov-13-19 13:45** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	J		400	ug/L	200	E19K014	Nov-25-19	Nov-26-19
Chloromethane	**U**	J		400	"	"	"	"	"
Vinyl chloride	**U**			400	"	"	"	"	"
Bromomethane	**U**			400	"	"	"	"	"
Chloroethane	**U**			400	"	"	"	"	"
Trichlorofluoromethane	**U**			400	"	"	"	"	"
1,1-Dichloroethene	**U**			400	"	"	"	"	"
Methylene chloride	**U**			400	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			400	"	"	"	"	"
Methyl tert-butyl ether	**U**			400	"	"	"	"	"
1,1-Dichloroethane	**U**			400	"	"	"	"	"
2,2-Dichloropropane	**U**	J		400	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			400	"	"	"	"	"
Bromochloromethane	**U**			400	"	"	"	"	"
Chloroform	**U**			400	"	"	"	"	"
1,1,1-Trichloroethane	**U**			400	"	"	"	"	"
Carbon Tetrachloride	**U**			400	"	"	"	"	"
1,1-Dichloropropene	**U**			400	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW004A-191113 (E191105-05) **Matrix: Water** **Sampled: Nov-13-19 13:45** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Benzene	**U**			400	ug/L	200	E19K014	Nov-25-19	Nov-26-19
1,2-Dichloroethane	**U**			400	"	"	"	"	"
Trichloroethene	**U**			400	"	"	"	"	"
1,2-Dichloropropane	**U**			400	"	"	"	"	"
Dibromomethane	**U**			400	"	"	"	"	"
Bromodichloromethane	**U**			400	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			400	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			400	"	"	"	"	"
1,1,2-Trichloroethane	**U**			400	"	"	"	"	"
Tetrachloroethene	**U**			400	"	"	"	"	"
1,3-Dichloropropane	**U**			400	"	"	"	"	"
Dibromochloromethane	**U**			400	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			400	"	"	"	"	"
Chlorobenzene	**U**			400	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			400	"	"	"	"	"
Ethylbenzene	**455**			400	"	"	"	"	"
m,p-Xylene	**U**			800	"	"	"	"	"
o-Xylene	**U**			400	"	"	"	"	"
Styrene	**U**			400	"	"	"	"	"
Bromoform	**U**			400	"	"	"	"	"
Isopropylbenzene	**U**			400	"	"	"	"	"
Bromobenzene	**U**			400	"	"	"	"	"
1,2,3-Trichloropropane	**U**			400	"	"	"	"	"
n-Propylbenzene	**U**			400	"	"	"	"	"
2-Chlorotoluene	**U**			400	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			400	"	"	"	"	"
4-Chlorotoluene	**U**			400	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			400	"	"	"	"	"
tert-Butylbenzene	**U**			400	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			400	"	"	"	"	"
sec-Butylbenzene	**U**			400	"	"	"	"	"
1,3-Dichlorobenzene	**U**			400	"	"	"	"	"
p-Isopropyltoluene	**U**			400	"	"	"	"	"
1,4-Dichlorobenzene	**U**			400	"	"	"	"	"
1,2-Dichlorobenzene	**U**			400	"	"	"	"	"
n-Butylbenzene	**U**			400	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			400	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS
TechLaw - ESAT Contract

A11-MW004A-191113 (E191105-05) **Matrix: Water** **Sampled: Nov-13-19 13:45** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,4-Trichlorobenzene	**U**			400	ug/L	200	E19K014	Nov-25-19	Nov-26-19
Hexachlorobutadiene	**U**			400	"	"	"	"	"
Naphthalene	**U**			400	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			400	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.36	*93.6%*	*73-114*	"	"	"
1,2-Dichloroethane-d4	9.87	*98.7%*	*86-114*	"	"	"
Toluene-d8	9.94	*99.4%*	*91-107*	"	"	"
4-Bromofluorobenzene	9.92	*99.2%*	*88-107*	"	"	"

A11-MW004A-191113 (E191105-05RE1) **Matrix: Water** **Sampled: Nov-13-19 13:45** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**64300**			2000	ug/L	1000	E19K014	Nov-25-19	Nov-25-19

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.76	*97.6%*	*73-114*	"	"	"
1,2-Dichloroethane-d4	10.1	*101%*	*86-114*	"	"	"
Toluene-d8	9.67	*96.7%*	*91-107*	"	"	"
4-Bromofluorobenzene	9.58	*95.8%*	*88-107*	"	"	"

A11-MW004B-191112 (E191105-06) **Matrix: Water** **Sampled: Nov-12-19 15:35** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	E19K008	Nov-21-19	Nov-22-19
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
Methyl tert-butyl ether	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**6.55**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW004B-191112 (E191105-06) **Matrix: Water** **Sampled: Nov-12-19 15:35** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
cis-1,2-Dichloroethene	**U**			2.00	ug/L	1	E19K008	Nov-21-19	Nov-22-19
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**6.26**			2.00	"	"	"	"	"
Carbon Tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m,p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW004B-191112 (E191105-06) **Matrix: Water** **Sampled: Nov-12-19 15:35** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
sec-Butylbenzene	**U**			2.00	ug/L	1	E19K008	Nov-21-19	Nov-22-19
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.1	*101%*	*73-114*	"	"	"
1,2-Dichloroethane-d4	9.68	*96.8%*	*86-114*	"	"	"
Toluene-d8	9.85	*98.5%*	*91-107*	"	"	"
4-Bromofluorobenzene	9.87	*98.7%*	*88-107*	"	"	"

A11-MW005-191112 (E191105-07) **Matrix: Water** **Sampled: Nov-12-19 11:15** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	E19K014	Nov-25-19	Nov-25-19
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
Methyl tert-butyl ether	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**3.21**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**	J		2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**2.46**			2.00	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW005-191112 (E191105-07) **Matrix: Water** **Sampled: Nov-12-19 11:15** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Carbon Tetrachloride	**U**			2.00	ug/L	1	E19K014	Nov-25-19	Nov-25-19
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m,p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW005-191112 (E191105-07) **Matrix: Water** **Sampled: Nov-12-19 11:15** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dichlorobenzene	**U**			2.00	ug/L	1	E19K014	Nov-25-19	Nov-25-19
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.1	*101%*	*73-114*	"	"	"
1,2-Dichloroethane-d4	10.2	*102%*	*86-114*	"	"	"
Toluene-d8	10.1	*101%*	*91-107*	"	"	"
4-Bromofluorobenzene	9.89	*98.9%*	*88-107*	"	"	"

A11-MW006-191113 (E191105-08) **Matrix: Water** **Sampled: Nov-13-19 09:10** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	E19K014	Nov-25-19	Nov-25-19
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
Methyl tert-butyl ether	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**	J		2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon Tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**3.12**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW006-191113 (E191105-08) **Matrix: Water** **Sampled: Nov-13-19 09:10** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Trichloroethene	**U**			2.00	ug/L	1	E19K014	Nov-25-19	Nov-25-19
1,2-Dichloropropane	**2.57**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m,p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW006-191113 (E191105-08) **Matrix: Water** **Sampled: Nov-13-19 09:10** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Hexachlorobutadiene	**U**			2.00	ug/L	1	E19K014	Nov-25-19	Nov-25-19
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.63	*96.3%*	*73-114*	"	"	"
1,2-Dichloroethane-d4	10.0	*100%*	*86-114*	"	"	"
Toluene-d8	9.85	*98.5%*	*91-107*	"	"	"
4-Bromofluorobenzene	9.33	*93.3%*	*88-107*	"	"	"

A11-MW007-191113 (E191105-09) **Matrix: Water** **Sampled: Nov-13-19 10:30** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			10.0	ug/L	5	E19K014	Nov-25-19	Nov-25-19
Chloromethane	**U**			10.0	"	"	"	"	"
Vinyl chloride	**U**			10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**			10.0	"	"	"	"	"
Trichlorofluoromethane	**U**			10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
Methyl tert-butyl ether	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**	J		10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon Tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromomethane	**U**			10.0	"	"	"	"	"
Bromodichloromethane	**U**			10.0	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW007-191113 (E191105-09) **Matrix: Water** **Sampled: Nov-13-19 10:30** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
cis-1,3-Dichloropropene	**U**			10.0	ug/L	5	E19K014	Nov-25-19	Nov-25-19
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**28.3**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**19.5**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**31.7**			10.0	"	"	"	"	"
sec-Butylbenzene	**U**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**U**			10.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			10.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.61	*96.1%*	*73-114*	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS
TechLaw - ESAT Contract

A11-MW007-191113 (E191105-09) **Matrix: Water** **Sampled: Nov-13-19 10:30** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,2-Dichloroethane-d4	9.52			*95.2%*		*86-114*	*E19K014*	*Nov-25-19*	*Nov-25-19*
Toluene-d8	9.89			*98.9%*		*91-107*	"	"	"
4-Bromofluorobenzene	9.75			*97.5%*		*88-107*	"	"	"

A11-MW007-191113 (E191105-09RE1) **Matrix: Water** **Sampled: Nov-13-19 10:30** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**1420**			50.0	ug/L	25	E19K014	Nov-25-19	Nov-25-19
m,p-Xylene	**4190**			100	"	"	"	"	"
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.82			*98.2%*		*73-114*	"	"	"
1,2-Dichloroethane-d4	9.78			*97.8%*		*86-114*	"	"	"
Toluene-d8	9.93			*99.3%*		*91-107*	"	"	"
4-Bromofluorobenzene	9.72			*97.2%*		*88-107*	"	"	"

A11-MW007-191113-D (E191105-10) **Matrix: Water** **Sampled: Nov-13-19 10:30** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	J		10.0	ug/L	5	E19K014	Nov-25-19	Nov-26-19
Chloromethane	**U**	J		10.0	"	"	"	"	"
Vinyl chloride	**U**			10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**			10.0	"	"	"	"	"
Trichlorofluoromethane	**U**			10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
Methyl tert-butyl ether	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**	J		10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW007-191113-D (E191105-10) **Matrix: Water** **Sampled: Nov-13-19 10:30** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Carbon Tetrachloride	**U**			10.0	ug/L	5	E19K014	Nov-25-19	Nov-26-19
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromomethane	**U**			10.0	"	"	"	"	"
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**28.8**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**19.6**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**32.1**			10.0	"	"	"	"	"
sec-Butylbenzene	**U**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**U**			10.0	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-MW007-191113-D (E191105-10) **Matrix: Water** **Sampled: Nov-13-19 10:30** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dibromo-3-chloropropane	**U**			10.0	ug/L	5	E19K014	Nov-25-19	Nov-26-19
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**U**			10.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			10.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.67	*96.7%*	*73-114*	"	"	"
1,2-Dichloroethane-d4	10.1	*101%*	*86-114*	"	"	"
Toluene-d8	10.1	*101%*	*91-107*	"	"	"
4-Bromofluorobenzene	10.2	*102%*	*88-107*	"	"	"

A11-MW007-191113-D (E191105-10RE1) **Matrix: Water** **Sampled: Nov-13-19 10:30** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**1420**			50.0	ug/L	25	E19K014	Nov-25-19	Nov-25-19
m,p-Xylene	**4210**			100	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.67	*96.7%*	*73-114*	"	"	"
1,2-Dichloroethane-d4	9.93	*99.3%*	*86-114*	"	"	"
Toluene-d8	9.87	*98.7%*	*91-107*	"	"	"
4-Bromofluorobenzene	10.4	*104%*	*88-107*	"	"	"

A11-TB001-191112 (E191105-11) **Matrix: Water** **Sampled: Nov-12-19 08:00** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	E19K014	Nov-25-19	Nov-25-19
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
Methyl tert-butyl ether	**U**			2.00	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-TB001-191112 (E191105-11) **Matrix: Water** **Sampled: Nov-12-19 08:00** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1-Dichloroethane	**U**			2.00	ug/L	1	E19K014	Nov-25-19	Nov-25-19
2,2-Dichloropropane	**U**	J		2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon Tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m,p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS

TechLaw - ESAT Contract

A11-TB001-191112 (E191105-11) **Matrix: Water** **Sampled: Nov-12-19 08:00** **Received: Nov-14-19 12:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
tert-Butylbenzene	**U**			2.00	ug/L	1	E19K014	Nov-25-19	Nov-25-19
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.95	*99.5%*	*73-114*	"	"	"
1,2-Dichloroethane-d4	9.90	*99.0%*	*86-114*	"	"	"
Toluene-d8	9.88	*98.8%*	*91-107*	"	"	"
4-Bromofluorobenzene	9.77	*97.7%*	*88-107*	"	"	"

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control

TechLaw - ESAT Contract

Batch E19K008 - Volatiles

Blank (E19K008-BLK1) **Prepared: Nov-21-19 Analyzed: Nov-22-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	U			2.00	ug/L						
Chloromethane	U			2.00	"						
Vinyl chloride	U			2.00	"						
Bromomethane	U			2.00	"						
Chloroethane	U			2.00	"						
Trichlorofluoromethane	U			2.00	"						
1,1-Dichloroethene	U			2.00	"						
Methylene chloride	U			2.00	"						
trans-1,2-Dichloroethene	U			2.00	"						
Methyl tert-butyl ether	U			2.00	"						
1,1-Dichloroethane	U			2.00	"						
2,2-Dichloropropane	U			2.00	"						
cis-1,2-Dichloroethene	U			2.00	"						
Bromochloromethane	U			2.00	"						
Chloroform	U			2.00	"						
1,1,1-Trichloroethane	U			2.00	"						
Carbon Tetrachloride	U			2.00	"						
1,1-Dichloropropene	U			2.00	"						
Benzene	U			2.00	"						
1,2-Dichloroethane	U			2.00	"						
Trichloroethene	U			2.00	"						
1,2-Dichloropropane	U			2.00	"						
Dibromomethane	U			2.00	"						
Bromodichloromethane	U			2.00	"						
cis-1,3-Dichloropropene	U			2.00	"						
Toluene	U			2.00	"						
trans-1,3-Dichloropropene	U			2.00	"						
1,1,2-Trichloroethane	U			2.00	"						
Tetrachloroethene	U			2.00	"						
1,3-Dichloropropane	U			2.00	"						
Dibromochloromethane	U			2.00	"						
1,2-Dibromoethane (EDB)	U			2.00	"						

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control

TechLaw - ESAT Contract

Batch E19K008 - Volatiles

Blank (E19K008-BLK1) **Prepared: Nov-21-19 Analyzed: Nov-22-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene	U			2.00	ug/L						
1,1,1,2-Tetrachloroethane	U			2.00	"						
Ethylbenzene	U			2.00	"						
m,p-Xylene	U			4.00	"						
o-Xylene	U			2.00	"						
Styrene	U			2.00	"						
Bromoform	U			2.00	"						
Isopropylbenzene	U			2.00	"						
Bromobenzene	U			2.00	"						
1,2,3-Trichloropropane	U			2.00	"						
n-Propylbenzene	U			2.00	"						
2-Chlorotoluene	U			2.00	"						
1,3,5-Trimethylbenzene	U			2.00	"						
4-Chlorotoluene	U			2.00	"						
1,1,2,2-Tetrachloroethane	U			2.00	"						
tert-Butylbenzene	U			2.00	"						
1,2,4-Trimethylbenzene	U			2.00	"						
sec-Butylbenzene	U			2.00	"						
1,3-Dichlorobenzene	U			2.00	"						
p-Isopropyltoluene	U			2.00	"						
1,4-Dichlorobenzene	U			2.00	"						
1,2-Dichlorobenzene	U			2.00	"						
n-Butylbenzene	U			2.00	"						
1,2-Dibromo-3-chloropropane	U			2.00	"						
1,2,4-Trichlorobenzene	U			2.00	"						
Hexachlorobutadiene	U			2.00	"						
Naphthalene	U			2.00	"						
1,2,3-Trichlorobenzene	U			2.00	"						
Surrogate: Dibromofluoromethane	*9.50*				*"*	*10.0*		*95.0%*	*73-114*		
Surrogate: 1,2-Dichloroethane-d4	*9.63*				*"*	*10.0*		*96.3%*	*86-114*		
Surrogate: Toluene-d8	*9.99*				*"*	*10.0*		*99.9%*	*91-107*		
Surrogate: 4-Bromofluorobenzene	*10.0*				*"*	*10.0*		*100%*	*88-107*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K008 - Volatiles

LCS (E19K008-BS1) **Prepared: Nov-21-19 Analyzed: Nov-22-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**28.0**			2.00	ug/L	25.0		112%	70-130		
Chloromethane	**23.8**			2.00	"	25.0		95.2%	70-130		
Vinyl chloride	**26.1**			2.00	"	25.0		105%	70-130		
Bromomethane	**23.2**			2.00	"	25.0		92.9%	70-130		
Chloroethane	**26.3**			2.00	"	25.0		105%	70-130		
Trichlorofluoromethane	**28.2**			2.00	"	25.0		113%	70-130		
1,1-Dichloroethene	**28.3**			2.00	"	25.0		113%	70-130		
Methylene chloride	**24.1**			2.00	"	25.0		96.3%	70-130		
trans-1,2-Dichloroethene	**25.8**			2.00	"	25.0		103%	70-130		
Methyl tert-butyl ether	**23.1**			2.00	"	25.0		92.3%	70-130		
1,1-Dichloroethane	**25.4**			2.00	"	25.0		102%	70-130		
2,2-Dichloropropane	**18.2**			2.00	"	25.0		72.7%	70-130		
cis-1,2-Dichloroethene	**24.1**			2.00	"	25.0		96.2%	70-130		
Bromochloromethane	**24.4**			2.00	"	25.0		97.5%	70-130		
Chloroform	**24.8**			2.00	"	25.0		99.1%	70-130		
1,1,1-Trichloroethane	**27.4**			2.00	"	25.0		110%	70-130		
Carbon Tetrachloride	**27.4**			2.00	"	25.0		110%	70-130		
1,1-Dichloropropene	**26.5**			2.00	"	25.0		106%	70-130		
Benzene	**26.2**			2.00	"	25.0		105%	70-130		
1,2-Dichloroethane	**23.5**			2.00	"	25.0		93.8%	70-130		
Trichloroethene	**25.5**			2.00	"	25.0		102%	70-130		
1,2-Dichloropropane	**24.7**			2.00	"	25.0		98.6%	70-130		
Dibromomethane	**23.5**			2.00	"	25.0		93.8%	70-130		
Bromodichloromethane	**23.7**			2.00	"	25.0		94.8%	70-130		
cis-1,3-Dichloropropene	**22.3**			2.00	"	25.0		89.1%	70-130		
Toluene	**23.9**			2.00	"	25.0		95.5%	70-130		
trans-1,3-Dichloropropene	**22.0**			2.00	"	25.0		88.1%	70-130		
1,1,2-Trichloroethane	**23.1**			2.00	"	25.0		92.3%	70-130		
Tetrachloroethene	**25.5**			2.00	"	25.0		102%	70-130		
1,3-Dichloropropane	**23.0**			2.00	"	25.0		92.0%	70-130		
Dibromochloromethane	**23.5**			2.00	"	25.0		94.0%	70-130		
1,2-Dibromoethane (EDB)	**24.0**			2.00	"	25.0		95.9%	70-130		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K008 - Volatiles

LCS (E19K008-BS1) **Prepared: Nov-21-19 Analyzed: Nov-22-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene	**23.9**			2.00	ug/L	25.0		95.5%	70-130		
1,1,1,2-Tetrachloroethane	**24.5**			2.00	"	25.0		98.1%	70-130		
Ethylbenzene	**24.9**			2.00	"	25.0		99.4%	70-130		
m,p-Xylene	**47.9**			4.00	"	50.0		95.8%	70-130		
o-Xylene	**24.9**			2.00	"	25.0		99.6%	70-130		
Styrene	**25.2**			2.00	"	25.0		101%	70-130		
Bromoform	**22.5**			2.00	"	25.0		90.2%	70-130		
Isopropylbenzene	**25.9**			2.00	"	25.0		104%	70-130		
Bromobenzene	**24.0**			2.00	"	25.0		95.9%	70-130		
1,2,3-Trichloropropane	**23.7**			2.00	"	25.0		94.8%	70-130		
n-Propylbenzene	**25.3**			2.00	"	25.0		101%	70-130		
2-Chlorotoluene	**24.4**			2.00	"	25.0		97.8%	70-130		
1,3,5-Trimethylbenzene	**25.2**			2.00	"	25.0		101%	70-130		
4-Chlorotoluene	**24.7**			2.00	"	25.0		98.8%	70-130		
1,1,2,2-Tetrachloroethane	**23.4**			2.00	"	25.0		93.6%	70-130		
tert-Butylbenzene	**25.6**			2.00	"	25.0		102%	70-130		
1,2,4-Trimethylbenzene	**25.0**			2.00	"	25.0		99.9%	70-130		
sec-Butylbenzene	**25.6**			2.00	"	25.0		103%	70-130		
1,3-Dichlorobenzene	**23.8**			2.00	"	25.0		95.3%	70-130		
p-Isopropyltoluene	**24.8**			2.00	"	25.0		99.3%	70-130		
1,4-Dichlorobenzene	**23.7**			2.00	"	25.0		94.9%	70-130		
1,2-Dichlorobenzene	**23.8**			2.00	"	25.0		95.1%	70-130		
n-Butylbenzene	**23.9**			2.00	"	25.0		95.7%	70-130		
1,2-Dibromo-3-chloropropane	**21.2**			2.00	"	25.0		84.6%	70-130		
1,2,4-Trichlorobenzene	**21.8**			2.00	"	25.0		87.3%	70-130		
Hexachlorobutadiene	**21.1**			2.00	"	25.0		84.5%	70-130		
Naphthalene	**23.4**			2.00	"	25.0		93.5%	70-130		
1,2,3-Trichlorobenzene	**22.7**			2.00	"	25.0		90.9%	70-130		
Surrogate: Dibromofluoromethane	*9.97*				*"*	*10.0*		*99.7%*	*73-114*		
Surrogate: 1,2-Dichloroethane-d4	*9.67*				*"*	*10.0*		*96.7%*	*86-114*		
Surrogate: Toluene-d8	*9.94*				*"*	*10.0*		*99.4%*	*91-107*		
Surrogate: 4-Bromofluorobenzene	*9.63*				*"*	*10.0*		*96.3%*	*88-107*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control

TechLaw - ESAT Contract

Batch E19K008 - Volatiles

MRL Check (E19K008-MRL1) **Prepared: Nov-21-19 Analyzed: Nov-22-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**1.36**			2.00	ug/L	2.00		67.8%	50-150		
Chloromethane	**2.41**			2.00	"	2.00		121%	50-150		
Vinyl chloride	**1.55**			2.00	"	2.00		77.6%	50-150		
Bromomethane	**2.24**			2.00	"	2.00		112%	50-150		
Chloroethane	**1.37**			2.00	"	2.00		68.4%	50-150		
Trichlorofluoromethane	**1.51**			2.00	"	2.00		75.7%	50-150		
1,1-Dichloroethene	**1.10**			2.00	"	2.00		55.0%	50-150		
Methylene chloride	**1.50**			2.00	"	2.00		75.2%	50-150		
trans-1,2-Dichloroethene	**1.23**			2.00	"	2.00		61.6%	50-150		
Methyl tert-butyl ether	**1.52**			2.00	"	2.00		75.9%	50-150		
1,1-Dichloroethane	**1.30**			2.00	"	2.00		64.9%	50-150		
2,2-Dichloropropane	**1.07**			2.00	"	2.00		53.3%	50-150		
cis-1,2-Dichloroethene	**1.32**			2.00	"	2.00		66.2%	50-150		
Bromochloromethane	**1.26**			2.00	"	2.00		63.2%	50-150		
Chloroform	**1.38**			2.00	"	2.00		68.9%	50-150		
1,1,1-Trichloroethane	**1.24**			2.00	"	2.00		62.0%	50-150		
Carbon Tetrachloride	**1.20**			2.00	"	2.00		60.0%	50-150		
1,1-Dichloropropene	**1.28**			2.00	"	2.00		64.0%	50-150		
Benzene	**1.30**			2.00	"	2.00		64.9%	50-150		
1,2-Dichloroethane	**1.33**			2.00	"	2.00		66.3%	50-150		
Trichloroethene	**1.36**			2.00	"	2.00		68.2%	50-150		
1,2-Dichloropropane	**1.44**			2.00	"	2.00		72.0%	50-150		
Dibromomethane	**1.55**			2.00	"	2.00		77.3%	50-150		
Bromodichloromethane	**1.38**			2.00	"	2.00		68.8%	50-150		
cis-1,3-Dichloropropene	**1.28**			2.00	"	2.00		63.8%	50-150		
Toluene	**1.81**			2.00	"	2.00		90.3%	50-150		
trans-1,3-Dichloropropene	**1.48**			2.00	"	2.00		73.8%	50-150		
1,1,2-Trichloroethane	**1.41**			2.00	"	2.00		70.7%	50-150		
Tetrachloroethene	**1.43**			2.00	"	2.00		71.4%	50-150		
1,3-Dichloropropane	**1.51**			2.00	"	2.00		75.5%	50-150		
Dibromochloromethane	**1.42**			2.00	"	2.00		70.9%	50-150		
1,2-Dibromoethane (EDB)	**1.45**			2.00	"	2.00		72.7%	50-150		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K008 - Volatiles

MRL Check (E19K008-MRL1) **Prepared: Nov-21-19 Analyzed: Nov-22-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene	**1.46**			2.00	ug/L	2.00		73.0%	50-150		
1,1,1,2-Tetrachloroethane	**1.47**			2.00	"	2.00		73.5%	50-150		
Ethylbenzene	**1.52**			2.00	"	2.00		75.9%	50-150		
m,p-Xylene	**3.06**			4.00	"	4.00		76.6%	50-150		
o-Xylene	**1.51**			2.00	"	2.00		75.3%	50-150		
Styrene	**1.32**			2.00	"	2.00		66.1%	50-150		
Bromoform	**1.35**			2.00	"	2.00		67.4%	50-150		
Isopropylbenzene	**1.28**			2.00	"	2.00		63.8%	50-150		
Bromobenzene	**1.43**			2.00	"	2.00		71.6%	50-150		
1,2,3-Trichloropropane	**1.48**			2.00	"	2.00		73.9%	50-150		
n-Propylbenzene	**1.28**			2.00	"	2.00		64.1%	50-150		
2-Chlorotoluene	**1.44**			2.00	"	2.00		72.1%	50-150		
1,3,5-Trimethylbenzene	**1.37**			2.00	"	2.00		68.5%	50-150		
4-Chlorotoluene	**1.52**			2.00	"	2.00		76.2%	50-150		
1,1,2,2-Tetrachloroethane	**1.38**			2.00	"	2.00		68.8%	50-150		
tert-Butylbenzene	**1.33**			2.00	"	2.00		66.7%	50-150		
1,2,4-Trimethylbenzene	**1.34**			2.00	"	2.00		67.0%	50-150		
sec-Butylbenzene	**1.32**			2.00	"	2.00		65.9%	50-150		
1,3-Dichlorobenzene	**1.64**			2.00	"	2.00		82.1%	50-150		
p-Isopropyltoluene	**1.26**			2.00	"	2.00		63.0%	50-150		
1,4-Dichlorobenzene	**1.59**			2.00	"	2.00		79.3%	50-150		
1,2-Dichlorobenzene	**1.48**			2.00	"	2.00		74.1%	50-150		
n-Butylbenzene	**1.37**			2.00	"	2.00		68.7%	50-150		
1,2-Dibromo-3-chloropropane	**1.44**			2.00	"	2.00		72.0%	50-150		
1,2,4-Trichlorobenzene	**1.38**			2.00	"	2.00		69.2%	50-150		
Hexachlorobutadiene	**1.52**			2.00	"	2.00		76.1%	50-150		
Naphthalene	**1.37**			2.00	"	2.00		68.3%	50-150		
1,2,3-Trichlorobenzene	**1.34**			2.00	"	2.00		66.9%	50-150		
Surrogate: Dibromofluoromethane	*9.66*				*"*	*10.0*		*96.6%*	*73-114*		
Surrogate: 1,2-Dichloroethane-d4	*9.98*				*"*	*10.0*		*99.8%*	*86-114*		
Surrogate: Toluene-d8	*9.80*				*"*	*10.0*		*98.0%*	*91-107*		
Surrogate: 4-Bromofluorobenzene	*9.94*				*"*	*10.0*		*99.4%*	*88-107*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control

TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Blank (E19K014-BLK1) **Prepared & Analyzed: Nov-25-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	U			2.00	ug/L						
Chloromethane	U			2.00	"						
Vinyl chloride	U			2.00	"						
Bromomethane	U			2.00	"						
Chloroethane	U			2.00	"						
Trichlorofluoromethane	U			2.00	"						
1,1-Dichloroethene	U			2.00	"						
Methylene chloride	U			2.00	"						
trans-1,2-Dichloroethene	U			2.00	"						
Methyl tert-butyl ether	U			2.00	"						
1,1-Dichloroethane	U			2.00	"						
2,2-Dichloropropane	U	J		2.00	"						
cis-1,2-Dichloroethene	U			2.00	"						
Bromochloromethane	U			2.00	"						
Chloroform	U			2.00	"						
1,1,1-Trichloroethane	U			2.00	"						
Carbon Tetrachloride	U			2.00	"						
1,1-Dichloropropene	U			2.00	"						
Benzene	U			2.00	"						
1,2-Dichloroethane	U			2.00	"						
Trichloroethene	U			2.00	"						
1,2-Dichloropropane	U			2.00	"						
Dibromomethane	U			2.00	"						
Bromodichloromethane	U			2.00	"						
cis-1,3-Dichloropropene	U			2.00	"						
Toluene	U			2.00	"						
trans-1,3-Dichloropropene	U			2.00	"						
1,1,2-Trichloroethane	U			2.00	"						
Tetrachloroethene	U			2.00	"						
1,3-Dichloropropane	U			2.00	"						
Dibromochloromethane	U			2.00	"						
1,2-Dibromoethane (EDB)	U			2.00	"						

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control

TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Blank (E19K014-BLK1) **Prepared & Analyzed: Nov-25-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene	U			2.00	ug/L						
1,1,1,2-Tetrachloroethane	U			2.00	"						
Ethylbenzene	U			2.00	"						
m,p-Xylene	U			4.00	"						
o-Xylene	U			2.00	"						
Styrene	U			2.00	"						
Bromoform	U			2.00	"						
Isopropylbenzene	U			2.00	"						
Bromobenzene	U			2.00	"						
1,2,3-Trichloropropane	U			2.00	"						
n-Propylbenzene	U			2.00	"						
2-Chlorotoluene	U			2.00	"						
1,3,5-Trimethylbenzene	U			2.00	"						
4-Chlorotoluene	U			2.00	"						
1,1,2,2-Tetrachloroethane	U			2.00	"						
tert-Butylbenzene	U			2.00	"						
1,2,4-Trimethylbenzene	U			2.00	"						
sec-Butylbenzene	U			2.00	"						
1,3-Dichlorobenzene	U			2.00	"						
p-Isopropyltoluene	U			2.00	"						
1,4-Dichlorobenzene	U			2.00	"						
1,2-Dichlorobenzene	U			2.00	"						
n-Butylbenzene	U			2.00	"						
1,2-Dibromo-3-chloropropane	U			2.00	"						
1,2,4-Trichlorobenzene	U			2.00	"						
Hexachlorobutadiene	U			2.00	"						
Naphthalene	U			2.00	"						
1,2,3-Trichlorobenzene	U			2.00	"						
Surrogate: Dibromofluoromethane	*9.51*				*"*	*10.0*		*95.1%*	*73-114*		
Surrogate: 1,2-Dichloroethane-d4	*9.97*				*"*	*10.0*		*99.7%*	*86-114*		
Surrogate: Toluene-d8	*9.50*				*"*	*10.0*		*95.0%*	*91-107*		
Surrogate: 4-Bromofluorobenzene	*9.36*				*"*	*10.0*		*93.6%*	*88-107*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control

TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Blank (E19K014-BLK2) **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	U	J		2.00	ug/L						
Chloromethane	U	J		2.00	"						
Vinyl chloride	U			2.00	"						
Bromomethane	U			2.00	"						
Chloroethane	U			2.00	"						
Trichlorofluoromethane	U			2.00	"						
1,1-Dichloroethene	U			2.00	"						
Methylene chloride	U			2.00	"						
trans-1,2-Dichloroethene	U			2.00	"						
Methyl tert-butyl ether	U			2.00	"						
1,1-Dichloroethane	U			2.00	"						
2,2-Dichloropropane	U	J		2.00	"						
cis-1,2-Dichloroethene	U			2.00	"						
Bromochloromethane	U			2.00	"						
Chloroform	U			2.00	"						
1,1,1-Trichloroethane	U			2.00	"						
Carbon Tetrachloride	U			2.00	"						
1,1-Dichloropropene	U			2.00	"						
Benzene	U			2.00	"						
1,2-Dichloroethane	U			2.00	"						
Trichloroethene	U			2.00	"						
1,2-Dichloropropane	U			2.00	"						
Dibromomethane	U			2.00	"						
Bromodichloromethane	U			2.00	"						
cis-1,3-Dichloropropene	U			2.00	"						
Toluene	U			2.00	"						
trans-1,3-Dichloropropene	U			2.00	"						
1,1,2-Trichloroethane	U			2.00	"						
Tetrachloroethene	U			2.00	"						
1,3-Dichloropropane	U			2.00	"						
Dibromochloromethane	U			2.00	"						
1,2-Dibromoethane (EDB)	U			2.00	"						

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control

TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Blank (E19K014-BLK2) **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene	U			2.00	ug/L						
1,1,1,2-Tetrachloroethane	U			2.00	"						
Ethylbenzene	U			2.00	"						
m,p-Xylene	U			4.00	"						
o-Xylene	U			2.00	"						
Styrene	U			2.00	"						
Bromoform	U			2.00	"						
Isopropylbenzene	U			2.00	"						
Bromobenzene	U			2.00	"						
1,2,3-Trichloropropane	U			2.00	"						
n-Propylbenzene	U			2.00	"						
2-Chlorotoluene	U			2.00	"						
1,3,5-Trimethylbenzene	U			2.00	"						
4-Chlorotoluene	U			2.00	"						
1,1,2,2-Tetrachloroethane	U			2.00	"						
tert-Butylbenzene	U			2.00	"						
1,2,4-Trimethylbenzene	U			2.00	"						
sec-Butylbenzene	U			2.00	"						
1,3-Dichlorobenzene	U			2.00	"						
p-Isopropyltoluene	U			2.00	"						
1,4-Dichlorobenzene	U			2.00	"						
1,2-Dichlorobenzene	U			2.00	"						
n-Butylbenzene	U			2.00	"						
1,2-Dibromo-3-chloropropane	U			2.00	"						
1,2,4-Trichlorobenzene	U			2.00	"						
Hexachlorobutadiene	U			2.00	"						
Naphthalene	U			2.00	"						
1,2,3-Trichlorobenzene	U			2.00	"						
Surrogate: Dibromofluoromethane	*10.1*				*"*	*10.0*		*101%*	*73-114*		
Surrogate: 1,2-Dichloroethane-d4	*10.3*				*"*	*10.0*		*103%*	*86-114*		
Surrogate: Toluene-d8	*10.0*				*"*	*10.0*		*100%*	*91-107*		
Surrogate: 4-Bromofluorobenzene	*9.35*				*"*	*10.0*		*93.5%*	*88-107*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control

TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Blank (E19K014-BLK3) **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	U	J		2.00	ug/L						
Chloromethane	U	J		2.00	"						
Vinyl chloride	U			2.00	"						
Bromomethane	U			2.00	"						
Chloroethane	U			2.00	"						
Trichlorofluoromethane	U			2.00	"						
1,1-Dichloroethene	U			2.00	"						
Methylene chloride	U			2.00	"						
trans-1,2-Dichloroethene	U			2.00	"						
Methyl tert-butyl ether	U			2.00	"						
1,1-Dichloroethane	U			2.00	"						
2,2-Dichloropropane	U	J		2.00	"						
cis-1,2-Dichloroethene	U			2.00	"						
Bromochloromethane	U			2.00	"						
Chloroform	U			2.00	"						
1,1,1-Trichloroethane	U			2.00	"						
Carbon Tetrachloride	U			2.00	"						
1,1-Dichloropropene	U			2.00	"						
Benzene	U			2.00	"						
1,2-Dichloroethane	U			2.00	"						
Trichloroethene	U			2.00	"						
1,2-Dichloropropane	U			2.00	"						
Dibromomethane	U			2.00	"						
Bromodichloromethane	U			2.00	"						
cis-1,3-Dichloropropene	U			2.00	"						
Toluene	U			2.00	"						
trans-1,3-Dichloropropene	U			2.00	"						
1,1,2-Trichloroethane	U			2.00	"						
Tetrachloroethene	U			2.00	"						
1,3-Dichloropropane	U			2.00	"						
Dibromochloromethane	U			2.00	"						
1,2-Dibromoethane (EDB)	U			2.00	"						

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Blank (E19K014-BLK3) **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene	U			2.00	ug/L						
1,1,1,2-Tetrachloroethane	U			2.00	"						
Ethylbenzene	U			2.00	"						
m,p-Xylene	U			4.00	"						
o-Xylene	U			2.00	"						
Styrene	U			2.00	"						
Bromoform	U			2.00	"						
Isopropylbenzene	U			2.00	"						
Bromobenzene	U			2.00	"						
1,2,3-Trichloropropane	U			2.00	"						
n-Propylbenzene	U			2.00	"						
2-Chlorotoluene	U			2.00	"						
1,3,5-Trimethylbenzene	U			2.00	"						
4-Chlorotoluene	U			2.00	"						
1,1,2,2-Tetrachloroethane	U			2.00	"						
tert-Butylbenzene	U			2.00	"						
1,2,4-Trimethylbenzene	U			2.00	"						
sec-Butylbenzene	U			2.00	"						
1,3-Dichlorobenzene	U			2.00	"						
p-Isopropyltoluene	U			2.00	"						
1,4-Dichlorobenzene	U			2.00	"						
1,2-Dichlorobenzene	U			2.00	"						
n-Butylbenzene	U			2.00	"						
1,2-Dibromo-3-chloropropane	U			2.00	"						
1,2,4-Trichlorobenzene	U			2.00	"						
Hexachlorobutadiene	U			2.00	"						
Naphthalene	U			2.00	"						
1,2,3-Trichlorobenzene	U			2.00	"						
Surrogate: Dibromofluoromethane	*9.46*				*"*	*10.0*		*94.6%*	*73-114*		
Surrogate: 1,2-Dichloroethane-d4	*9.95*				*"*	*10.0*		*99.5%*	*86-114*		
Surrogate: Toluene-d8	*10.0*				*"*	*10.0*		*100%*	*91-107*		
Surrogate: 4-Bromofluorobenzene	*9.59*				*"*	*10.0*		*95.9%*	*88-107*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K014 - Volatiles

LCS (E19K014-BS1) **Prepared & Analyzed: Nov-25-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**26.3**			2.00	ug/L	25.0		105%	70-130		
Chloromethane	**22.3**			2.00	"	25.0		89.2%	70-130		
Vinyl chloride	**26.1**			2.00	"	25.0		104%	70-130		
Bromomethane	**22.6**			2.00	"	25.0		90.4%	70-130		
Chloroethane	**23.6**			2.00	"	25.0		94.6%	70-130		
Trichlorofluoromethane	**27.3**			2.00	"	25.0		109%	70-130		
1,1-Dichloroethene	**27.8**			2.00	"	25.0		111%	70-130		
Methylene chloride	**24.6**			2.00	"	25.0		98.3%	70-130		
trans-1,2-Dichloroethene	**27.2**			2.00	"	25.0		109%	70-130		
Methyl tert-butyl ether	**24.6**			2.00	"	25.0		98.3%	70-130		
1,1-Dichloroethane	**26.5**			2.00	"	25.0		106%	70-130		
2,2-Dichloropropane	**29.3**			2.00	"	25.0		117%	70-130		
cis-1,2-Dichloroethene	**26.2**			2.00	"	25.0		105%	70-130		
Bromochloromethane	**25.5**			2.00	"	25.0		102%	70-130		
Chloroform	**25.8**			2.00	"	25.0		103%	70-130		
1,1,1-Trichloroethane	**27.7**			2.00	"	25.0		111%	70-130		
Carbon Tetrachloride	**27.6**			2.00	"	25.0		110%	70-130		
1,1-Dichloropropene	**28.6**			2.00	"	25.0		115%	70-130		
Benzene	**26.6**			2.00	"	25.0		106%	70-130		
1,2-Dichloroethane	**24.1**			2.00	"	25.0		96.5%	70-130		
Trichloroethene	**27.8**			2.00	"	25.0		111%	70-130		
1,2-Dichloropropane	**25.7**			2.00	"	25.0		103%	70-130		
Dibromomethane	**24.8**			2.00	"	25.0		99.2%	70-130		
Bromodichloromethane	**25.0**			2.00	"	25.0		99.8%	70-130		
cis-1,3-Dichloropropene	**26.4**			2.00	"	25.0		106%	70-130		
Toluene	**24.7**			2.00	"	25.0		98.8%	70-130		
trans-1,3-Dichloropropene	**26.3**			2.00	"	25.0		105%	70-130		
1,1,2-Trichloroethane	**26.0**			2.00	"	25.0		104%	70-130		
Tetrachloroethene	**29.8**			2.00	"	25.0		119%	70-130		
1,3-Dichloropropane	**25.7**			2.00	"	25.0		103%	70-130		
Dibromochloromethane	**26.5**			2.00	"	25.0		106%	70-130		
1,2-Dibromoethane (EDB)	**26.0**			2.00	"	25.0		104%	70-130		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K014 - Volatiles

LCS (E19K014-BS1) **Prepared & Analyzed: Nov-25-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene	**27.0**			2.00	ug/L	25.0		108%	70-130		
1,1,1,2-Tetrachloroethane	**26.8**			2.00	"	25.0		107%	70-130		
Ethylbenzene	**28.9**			2.00	"	25.0		116%	70-130		
m,p-Xylene	**54.9**			4.00	"	50.0		110%	70-130		
o-Xylene	**27.9**			2.00	"	25.0		111%	70-130		
Styrene	**28.5**			2.00	"	25.0		114%	70-130		
Bromoform	**26.0**			2.00	"	25.0		104%	70-130		
Isopropylbenzene	**29.3**			2.00	"	25.0		117%	70-130		
Bromobenzene	**26.4**			2.00	"	25.0		106%	70-130		
1,2,3-Trichloropropane	**25.6**			2.00	"	25.0		102%	70-130		
n-Propylbenzene	**29.7**			2.00	"	25.0		119%	70-130		
2-Chlorotoluene	**28.1**			2.00	"	25.0		112%	70-130		
1,3,5-Trimethylbenzene	**29.0**			2.00	"	25.0		116%	70-130		
4-Chlorotoluene	**28.3**			2.00	"	25.0		113%	70-130		
1,1,2,2-Tetrachloroethane	**24.8**			2.00	"	25.0		99.2%	70-130		
tert-Butylbenzene	**28.8**			2.00	"	25.0		115%	70-130		
1,2,4-Trimethylbenzene	**28.4**			2.00	"	25.0		114%	70-130		
sec-Butylbenzene	**29.8**			2.00	"	25.0		119%	70-130		
1,3-Dichlorobenzene	**27.5**			2.00	"	25.0		110%	70-130		
p-Isopropyltoluene	**29.9**			2.00	"	25.0		120%	70-130		
1,4-Dichlorobenzene	**27.7**			2.00	"	25.0		111%	70-130		
1,2-Dichlorobenzene	**27.1**			2.00	"	25.0		109%	70-130		
n-Butylbenzene	**31.1**			2.00	"	25.0		125%	70-130		
1,2-Dibromo-3-chloropropane	**25.0**			2.00	"	25.0		99.9%	70-130		
1,2,4-Trichlorobenzene	**28.7**			2.00	"	25.0		115%	70-130		
Hexachlorobutadiene	**31.1**			2.00	"	25.0		125%	70-130		
Naphthalene	**26.7**			2.00	"	25.0		107%	70-130		
1,2,3-Trichlorobenzene	**27.8**			2.00	"	25.0		111%	70-130		
Surrogate: Dibromofluoromethane	*9.25*				*"*	*10.0*		*92.5%*	*73-114*		
Surrogate: 1,2-Dichloroethane-d4	*9.71*				*"*	*10.0*		*97.1%*	*86-114*		
Surrogate: Toluene-d8	*9.62*				*"*	*10.0*		*96.2%*	*91-107*		
Surrogate: 4-Bromofluorobenzene	*9.71*				*"*	*10.0*		*97.1%*	*88-107*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K014 - Volatiles

LCS (E19K014-BS2) **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**14.5**	Q		2.00	ug/L	25.0		57.9%	70-130		
Chloromethane	**16.3**	Q		2.00	"	25.0		65.1%	70-130		
Vinyl chloride	**19.9**			2.00	"	25.0		79.7%	70-130		
Bromomethane	**18.3**			2.00	"	25.0		73.4%	70-130		
Chloroethane	**18.1**			2.00	"	25.0		72.5%	70-130		
Trichlorofluoromethane	**22.3**			2.00	"	25.0		89.1%	70-130		
1,1-Dichloroethene	**22.7**			2.00	"	25.0		90.7%	70-130		
Methylene chloride	**21.2**			2.00	"	25.0		84.8%	70-130		
trans-1,2-Dichloroethene	**22.9**			2.00	"	25.0		91.7%	70-130		
Methyl tert-butyl ether	**21.7**			2.00	"	25.0		87.0%	70-130		
1,1-Dichloroethane	**22.9**			2.00	"	25.0		91.6%	70-130		
2,2-Dichloropropane	**20.7**			2.00	"	25.0		82.8%	70-130		
cis-1,2-Dichloroethene	**22.8**			2.00	"	25.0		91.2%	70-130		
Bromochloromethane	**22.8**			2.00	"	25.0		91.1%	70-130		
Chloroform	**22.1**			2.00	"	25.0		88.5%	70-130		
1,1,1-Trichloroethane	**23.2**			2.00	"	25.0		92.9%	70-130		
Carbon Tetrachloride	**23.5**			2.00	"	25.0		93.9%	70-130		
1,1-Dichloropropene	**23.5**			2.00	"	25.0		94.1%	70-130		
Benzene	**23.2**			2.00	"	25.0		92.7%	70-130		
1,2-Dichloroethane	**22.1**			2.00	"	25.0		88.4%	70-130		
Trichloroethene	**23.9**			2.00	"	25.0		95.4%	70-130		
1,2-Dichloropropane	**22.3**			2.00	"	25.0		89.1%	70-130		
Dibromomethane	**21.5**			2.00	"	25.0		86.0%	70-130		
Bromodichloromethane	**21.2**			2.00	"	25.0		84.8%	70-130		
cis-1,3-Dichloropropene	**21.3**			2.00	"	25.0		85.4%	70-130		
Toluene	**21.2**			2.00	"	25.0		84.9%	70-130		
trans-1,3-Dichloropropene	**21.8**			2.00	"	25.0		87.1%	70-130		
1,1,2-Trichloroethane	**21.5**			2.00	"	25.0		86.0%	70-130		
Tetrachloroethene	**23.1**			2.00	"	25.0		92.5%	70-130		
1,3-Dichloropropane	**22.9**			2.00	"	25.0		91.5%	70-130		
Dibromochloromethane	**22.2**			2.00	"	25.0		88.8%	70-130		
1,2-Dibromoethane (EDB)	**23.0**			2.00	"	25.0		92.1%	70-130		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K014 - Volatiles

LCS (E19K014-BS2) **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene	**22.5**			2.00	ug/L	25.0		89.9%	70-130		
1,1,1,2-Tetrachloroethane	**22.4**			2.00	"	25.0		89.5%	70-130		
Ethylbenzene	**23.1**			2.00	"	25.0		92.6%	70-130		
m,p-Xylene	**44.8**			4.00	"	50.0		89.6%	70-130		
o-Xylene	**23.0**			2.00	"	25.0		92.1%	70-130		
Styrene	**23.2**			2.00	"	25.0		92.6%	70-130		
Bromoform	**22.5**			2.00	"	25.0		89.9%	70-130		
Isopropylbenzene	**23.8**			2.00	"	25.0		95.3%	70-130		
Bromobenzene	**22.0**			2.00	"	25.0		88.1%	70-130		
1,2,3-Trichloropropane	**26.3**			2.00	"	25.0		105%	70-130		
n-Propylbenzene	**22.9**			2.00	"	25.0		91.7%	70-130		
2-Chlorotoluene	**22.7**			2.00	"	25.0		90.8%	70-130		
1,3,5-Trimethylbenzene	**22.9**			2.00	"	25.0		91.7%	70-130		
4-Chlorotoluene	**22.7**			2.00	"	25.0		90.7%	70-130		
1,1,2,2-Tetrachloroethane	**23.5**			2.00	"	25.0		94.1%	70-130		
tert-Butylbenzene	**23.6**			2.00	"	25.0		94.2%	70-130		
1,2,4-Trimethylbenzene	**23.1**			2.00	"	25.0		92.3%	70-130		
sec-Butylbenzene	**23.5**			2.00	"	25.0		93.8%	70-130		
1,3-Dichlorobenzene	**22.3**			2.00	"	25.0		89.4%	70-130		
p-Isopropyltoluene	**22.8**			2.00	"	25.0		91.1%	70-130		
1,4-Dichlorobenzene	**21.7**			2.00	"	25.0		86.8%	70-130		
1,2-Dichlorobenzene	**22.3**			2.00	"	25.0		89.4%	70-130		
n-Butylbenzene	**23.0**			2.00	"	25.0		91.8%	70-130		
1,2-Dibromo-3-chloropropane	**28.6**			2.00	"	25.0		115%	70-130		
1,2,4-Trichlorobenzene	**21.9**			2.00	"	25.0		87.8%	70-130		
Hexachlorobutadiene	**21.6**			2.00	"	25.0		86.4%	70-130		
Naphthalene	**25.3**			2.00	"	25.0		101%	70-130		
1,2,3-Trichlorobenzene	**22.0**			2.00	"	25.0		88.1%	70-130		
Surrogate: Dibromofluoromethane	*9.57*				*"*	*10.0*		*95.7%*	*73-114*		
Surrogate: 1,2-Dichloroethane-d4	*9.80*				*"*	*10.0*		*98.0%*	*86-114*		
Surrogate: Toluene-d8	*10.1*				*"*	*10.0*		*101%*	*91-107*		
Surrogate: 4-Bromofluorobenzene	*9.99*				*"*	*10.0*		*99.9%*	*88-107*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K014 - Volatiles

LCS Dup (E19K014-BSD1) **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**23.1**			2.00	ug/L	25.0		92.3%	70-130	13.1	60
Chloromethane	**20.5**			2.00	"	25.0		82.0%	70-130	8.44	60
Vinyl chloride	**24.1**			2.00	"	25.0		96.4%	70-130	8.02	60
Bromomethane	**20.7**			2.00	"	25.0		82.6%	70-130	8.99	60
Chloroethane	**23.1**			2.00	"	25.0		92.6%	70-130	2.15	60
Trichlorofluoromethane	**24.7**			2.00	"	25.0		99.0%	70-130	9.73	60
1,1-Dichloroethene	**25.3**			2.00	"	25.0		101%	70-130	9.34	60
Methylene chloride	**23.1**			2.00	"	25.0		92.4%	70-130	6.20	60
trans-1,2-Dichloroethene	**24.4**			2.00	"	25.0		97.7%	70-130	10.8	60
Methyl tert-butyl ether	**23.1**			2.00	"	25.0		92.5%	70-130	6.12	60
1,1-Dichloroethane	**24.6**			2.00	"	25.0		98.4%	70-130	7.50	60
2,2-Dichloropropane	**16.3**	Q		2.00	"	25.0		65.1%	70-130	57.1	60
cis-1,2-Dichloroethene	**23.4**			2.00	"	25.0		93.6%	70-130	11.4	60
Bromochloromethane	**24.1**			2.00	"	25.0		96.3%	70-130	5.65	60
Chloroform	**23.4**			2.00	"	25.0		93.5%	70-130	9.76	60
1,1,1-Trichloroethane	**25.0**			2.00	"	25.0		100%	70-130	10.1	60
Carbon Tetrachloride	**25.0**			2.00	"	25.0		100%	70-130	9.71	60
1,1-Dichloropropene	**25.1**			2.00	"	25.0		100%	70-130	13.3	60
Benzene	**24.4**			2.00	"	25.0		97.8%	70-130	8.32	60
1,2-Dichloroethane	**22.4**			2.00	"	25.0		89.5%	70-130	7.53	60
Trichloroethene	**25.7**			2.00	"	25.0		103%	70-130	8.02	60
1,2-Dichloropropane	**22.8**			2.00	"	25.0		91.1%	70-130	12.0	60
Dibromomethane	**22.3**			2.00	"	25.0		89.3%	70-130	10.5	60
Bromodichloromethane	**23.0**			2.00	"	25.0		92.1%	70-130	8.07	60
cis-1,3-Dichloropropene	**21.1**			2.00	"	25.0		84.6%	70-130	22.0	60
Toluene	**22.5**			2.00	"	25.0		90.0%	70-130	9.39	60
trans-1,3-Dichloropropene	**21.8**			2.00	"	25.0		87.2%	70-130	18.7	60
1,1,2-Trichloroethane	**23.5**			2.00	"	25.0		94.1%	70-130	9.93	60
Tetrachloroethene	**24.4**			2.00	"	25.0		97.5%	70-130	20.2	60
1,3-Dichloropropane	**24.0**			2.00	"	25.0		95.9%	70-130	6.85	60
Dibromochloromethane	**23.1**			2.00	"	25.0		92.2%	70-130	13.9	60
1,2-Dibromoethane (EDB)	**23.8**			2.00	"	25.0		95.1%	70-130	9.11	60

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control

TechLaw - ESAT Contract

Batch E19K014 - Volatiles

LCS Dup (E19K014-BSD1) **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene	**24.8**			2.00	ug/L	25.0		99.1%	70-130	8.80	60
1,1,1,2-Tetrachloroethane	**23.7**			2.00	"	25.0		94.8%	70-130	12.1	60
Ethylbenzene	**24.4**			2.00	"	25.0		97.4%	70-130	17.1	60
m,p-Xylene	**48.7**			4.00	"	50.0		97.4%	70-130	11.9	60
o-Xylene	**24.2**			2.00	"	25.0		97.0%	70-130	13.9	60
Styrene	**24.3**			2.00	"	25.0		97.2%	70-130	15.9	60
Bromoform	**24.1**			2.00	"	25.0		96.3%	70-130	7.51	60
Isopropylbenzene	**25.4**			2.00	"	25.0		102%	70-130	14.4	60
Bromobenzene	**23.6**			2.00	"	25.0		94.5%	70-130	11.3	60
1,2,3-Trichloropropane	**25.6**			2.00	"	25.0		102%	70-130	0.0312	60
n-Propylbenzene	**24.5**			2.00	"	25.0		97.8%	70-130	19.5	60
2-Chlorotoluene	**24.1**			2.00	"	25.0		96.4%	70-130	15.3	60
1,3,5-Trimethylbenzene	**24.1**			2.00	"	25.0		96.5%	70-130	18.5	60
4-Chlorotoluene	**24.0**			2.00	"	25.0		96.2%	70-130	16.3	60
1,1,2,2-Tetrachloroethane	**21.8**			2.00	"	25.0		87.2%	70-130	12.9	60
tert-Butylbenzene	**24.8**			2.00	"	25.0		99.3%	70-130	14.8	60
1,2,4-Trimethylbenzene	**24.0**			2.00	"	25.0		96.0%	70-130	17.0	60
sec-Butylbenzene	**24.0**			2.00	"	25.0		96.1%	70-130	21.3	60
1,3-Dichlorobenzene	**23.0**			2.00	"	25.0		91.8%	70-130	17.9	60
p-Isopropyltoluene	**23.5**			2.00	"	25.0		94.0%	70-130	24.0	60
1,4-Dichlorobenzene	**23.0**			2.00	"	25.0		92.1%	70-130	18.5	60
1,2-Dichlorobenzene	**23.2**			2.00	"	25.0		92.7%	70-130	15.7	60
n-Butylbenzene	**22.9**			2.00	"	25.0		91.7%	70-130	30.4	60
1,2-Dibromo-3-chloropropane	**24.5**			2.00	"	25.0		97.9%	70-130	2.05	60
1,2,4-Trichlorobenzene	**22.0**			2.00	"	25.0		88.1%	70-130	26.3	60
Hexachlorobutadiene	**21.1**			2.00	"	25.0		84.6%	70-130	38.2	60
Naphthalene	**25.1**			2.00	"	25.0		101%	70-130	6.06	60
1,2,3-Trichlorobenzene	**22.5**			2.00	"	25.0		90.2%	70-130	20.9	60
Surrogate: Dibromofluoromethane	*10.2*				*"*	*10.0*		*102%*	*73-114*		
Surrogate: 1,2-Dichloroethane-d4	*9.59*				*"*	*10.0*		*95.9%*	*86-114*		
Surrogate: Toluene-d8	*10.0*				*"*	*10.0*		*100%*	*91-107*		
Surrogate: 4-Bromofluorobenzene	*10.3*				*"*	*10.0*		*103%*	*88-107*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control

TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Matrix Spike (E19K014-MS1) **Source: E191105-07** **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**23.6**	J		2.00	ug/L	25.0	U	94.3%	60-140		
Chloromethane	**19.3**	J		2.00	"	25.0	U	77.3%	60-140		
Vinyl chloride	**24.0**			2.00	"	25.0	U	96.0%	60-140		
Bromomethane	**18.7**			2.00	"	25.0	U	74.7%	60-140		
Chloroethane	**20.0**			2.00	"	25.0	U	80.1%	60-140		
Trichlorofluoromethane	**27.1**			2.00	"	25.0	U	108%	60-140		
1,1-Dichloroethene	**25.6**			2.00	"	25.0	U	102%	60-140		
Methylene chloride	**20.3**			2.00	"	25.0	U	81.1%	60-140		
trans-1,2-Dichloroethene	**22.7**			2.00	"	25.0	U	91.0%	60-140		
Methyl tert-butyl ether	**20.0**			2.00	"	25.0	U	80.0%	60-140		
1,1-Dichloroethane	**25.7**			2.00	"	25.0	3.21	90.0%	60-140		
2,2-Dichloropropane	**25.1**	J		2.00	"	25.0	U	100%	60-140		
cis-1,2-Dichloroethene	**21.3**			2.00	"	25.0	0.970	81.4%	60-140		
Bromochloromethane	**20.1**			2.00	"	25.0	U	80.2%	60-140		
Chloroform	**21.2**			2.00	"	25.0	U	84.9%	60-140		
1,1,1-Trichloroethane	**27.1**			2.00	"	25.0	2.46	98.5%	60-140		
Carbon Tetrachloride	**25.3**			2.00	"	25.0	U	101%	60-140		
1,1-Dichloropropene	**24.4**			2.00	"	25.0	U	97.5%	60-140		
Benzene	**22.4**			2.00	"	25.0	U	89.6%	60-140		
1,2-Dichloroethane	**20.2**			2.00	"	25.0	U	80.9%	60-140		
Trichloroethene	**23.2**			2.00	"	25.0	U	92.9%	60-140		
1,2-Dichloropropane	**21.4**			2.00	"	25.0	U	85.7%	60-140		
Dibromomethane	**20.5**			2.00	"	25.0	U	82.1%	60-140		
Bromodichloromethane	**20.4**			2.00	"	25.0	U	81.6%	60-140		
cis-1,3-Dichloropropene	**20.2**			2.00	"	25.0	U	80.8%	60-140		
Toluene	**22.0**			2.00	"	25.0	U	88.0%	60-140		
trans-1,3-Dichloropropene	**20.5**			2.00	"	25.0	U	82.2%	60-140		
1,1,2-Trichloroethane	**20.4**			2.00	"	25.0	U	81.8%	60-140		
Tetrachloroethene	**25.1**			2.00	"	25.0	U	100%	60-140		
1,3-Dichloropropane	**20.8**			2.00	"	25.0	U	83.1%	60-140		
Dibromochloromethane	**20.1**			2.00	"	25.0	U	80.4%	60-140		
1,2-Dibromoethane (EDB)	**21.0**			2.00	"	25.0	U	83.8%	60-140		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control

TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Matrix Spike (E19K014-MS1) **Source: E191105-07** **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene	**21.9**			2.00	ug/L	25.0	U	87.6%	60-140		
1,1,1,2-Tetrachloroethane	**21.3**			2.00	"	25.0	U	85.1%	60-140		
Ethylbenzene	**22.9**			2.00	"	25.0	U	91.7%	60-140		
m,p-Xylene	**45.7**			4.00	"	50.0	U	91.4%	60-140		
o-Xylene	**22.3**			2.00	"	25.0	U	89.2%	60-140		
Styrene	**22.4**			2.00	"	25.0	U	89.6%	60-140		
Bromoform	**19.8**			2.00	"	25.0	U	79.1%	60-140		
Isopropylbenzene	**24.2**			2.00	"	25.0	U	97.0%	60-140		
Bromobenzene	**20.7**			2.00	"	25.0	U	82.6%	60-140		
1,2,3-Trichloropropane	**23.9**			2.00	"	25.0	U	95.8%	60-140		
n-Propylbenzene	**24.5**			2.00	"	25.0	U	97.9%	60-140		
2-Chlorotoluene	**22.4**			2.00	"	25.0	U	89.7%	60-140		
1,3,5-Trimethylbenzene	**23.6**			2.00	"	25.0	U	94.5%	60-140		
4-Chlorotoluene	**22.1**			2.00	"	25.0	U	88.5%	60-140		
1,1,2,2-Tetrachloroethane	**23.0**			2.00	"	25.0	U	92.2%	60-140		
tert-Butylbenzene	**24.2**			2.00	"	25.0	U	96.8%	60-140		
1,2,4-Trimethylbenzene	**22.4**			2.00	"	25.0	U	89.6%	60-140		
sec-Butylbenzene	**24.8**			2.00	"	25.0	U	99.4%	60-140		
1,3-Dichlorobenzene	**21.2**			2.00	"	25.0	U	84.7%	60-140		
p-Isopropyltoluene	**24.4**			2.00	"	25.0	U	97.5%	60-140		
1,4-Dichlorobenzene	**21.0**			2.00	"	25.0	U	84.0%	60-140		
1,2-Dichlorobenzene	**20.5**			2.00	"	25.0	U	82.2%	60-140		
n-Butylbenzene	**24.8**			2.00	"	25.0	U	99.1%	60-140		
1,2-Dibromo-3-chloropropane	**26.3**			2.00	"	25.0	U	105%	60-140		
1,2,4-Trichlorobenzene	**20.9**			2.00	"	25.0	U	83.7%	60-140		
Hexachlorobutadiene	**23.5**			2.00	"	25.0	U	94.0%	60-140		
Naphthalene	**22.9**			2.00	"	25.0	U	91.7%	60-140		
1,2,3-Trichlorobenzene	**20.3**			2.00	"	25.0	U	81.2%	60-140		
Surrogate: Dibromofluoromethane	*9.58*				*"*	*10.0*		*95.8%*	*73-114*		
Surrogate: 1,2-Dichloroethane-d4	*9.60*				*"*	*10.0*		*96.0%*	*86-114*		
Surrogate: Toluene-d8	*9.72*				*"*	*10.0*		*97.2%*	*91-107*		
Surrogate: 4-Bromofluorobenzene	*9.94*				*"*	*10.0*		*99.4%*	*88-107*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control

TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Matrix Spike (E19K014-MS2) **Source: E191105-03** **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**1660**	J		200	ug/L	2500	U	66.4%	60-140		
Chloromethane	**1840**	J		200	"	2500	U	73.5%	60-140		
Vinyl chloride	**2180**			200	"	2500	U	87.4%	60-140		
Bromomethane	**1880**			200	"	2500	U	75.0%	60-140		
Chloroethane	**2130**			200	"	2500	U	85.0%	60-140		
Trichlorofluoromethane	**2250**			200	"	2500	U	90.2%	60-140		
1,1-Dichloroethene	**2410**			200	"	2500	U	96.6%	60-140		
Methylene chloride	**2190**			200	"	2500	U	87.7%	60-140		
trans-1,2-Dichloroethene	**2330**			200	"	2500	U	93.1%	60-140		
Methyl tert-butyl ether	**2240**			200	"	2500	U	89.5%	60-140		
1,1-Dichloroethane	**2380**			200	"	2500	U	95.2%	60-140		
2,2-Dichloropropane	**2320**	J		200	"	2500	U	92.8%	60-140		
cis-1,2-Dichloroethene	**2310**			200	"	2500	U	92.5%	60-140		
Bromochloromethane	**2170**			200	"	2500	U	86.9%	60-140		
Chloroform	**2330**			200	"	2500	U	93.0%	60-140		
1,1,1-Trichloroethane	**2490**			200	"	2500	U	99.5%	60-140		
Carbon Tetrachloride	**2350**			200	"	2500	U	94.1%	60-140		
1,1-Dichloropropene	**2420**			200	"	2500	U	97.0%	60-140		
Benzene	**2390**			200	"	2500	U	95.7%	60-140		
1,2-Dichloroethane	**2200**			200	"	2500	U	88.1%	60-140		
Trichloroethene	**2300**			200	"	2500	U	91.9%	60-140		
1,2-Dichloropropane	**2290**			200	"	2500	U	91.7%	60-140		
Dibromomethane	**2270**			200	"	2500	U	90.6%	60-140		
Bromodichloromethane	**2210**			200	"	2500	U	88.4%	60-140		
cis-1,3-Dichloropropene	**2230**			200	"	2500	U	89.3%	60-140		
Toluene	**25700**	J, Q		200	"	2500	19300	257%	60-140		
trans-1,3-Dichloropropene	**2290**			200	"	2500	U	91.6%	60-140		
1,1,2-Trichloroethane	**2330**			200	"	2500	U	93.2%	60-140		
Tetrachloroethene	**2500**			200	"	2500	U	99.8%	60-140		
1,3-Dichloropropane	**2340**			200	"	2500	U	93.5%	60-140		
Dibromochloromethane	**2280**			200	"	2500	U	91.2%	60-140		
1,2-Dibromoethane (EDB)	**2430**			200	"	2500	U	97.0%	60-140		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Matrix Spike (E19K014-MS2) **Source: E191105-03** **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene	**2370**			200	ug/L	2500	U	94.7%	60-140		
1,1,1,2-Tetrachloroethane	**2330**			200	"	2500	U	93.1%	60-140		
Ethylbenzene	**8320**	Q		200	"	2500	4420	156%	60-140		
m,p-Xylene	**20700**	J, Q		400	"	5000	12500	165%	60-140		
o-Xylene	**5520**			200	"	2500	2430	123%	60-140		
Styrene	**2930**			200	"	2500	371	102%	60-140		
Bromoform	**2260**			200	"	2500	U	90.4%	60-140		
Isopropylbenzene	**2580**			200	"	2500	U	103%	60-140		
Bromobenzene	**2330**			200	"	2500	U	93.3%	60-140		
1,2,3-Trichloropropane	**2610**			200	"	2500	U	104%	60-140		
n-Propylbenzene	**2610**			200	"	2500	93.6	101%	60-140		
2-Chlorotoluene	**2530**			200	"	2500	U	101%	60-140		
1,3,5-Trimethylbenzene	**2660**			200	"	2500	144	100%	60-140		
4-Chlorotoluene	**2430**			200	"	2500	U	97.4%	60-140		
1,1,2,2-Tetrachloroethane	**2490**			200	"	2500	U	99.4%	60-140		
tert-Butylbenzene	**2330**			200	"	2500	U	93.3%	60-140		
1,2,4-Trimethylbenzene	**2840**			200	"	2500	403	97.3%	60-140		
sec-Butylbenzene	**2380**			200	"	2500	U	95.4%	60-140		
1,3-Dichlorobenzene	**2210**			200	"	2500	U	88.5%	60-140		
p-Isopropyltoluene	**2390**			200	"	2500	U	95.5%	60-140		
1,4-Dichlorobenzene	**2220**			200	"	2500	U	88.8%	60-140		
1,2-Dichlorobenzene	**2250**			200	"	2500	U	89.9%	60-140		
n-Butylbenzene	**2410**			200	"	2500	U	96.2%	60-140		
1,2-Dibromo-3-chloropropane	**2510**			200	"	2500	U	100%	60-140		
1,2,4-Trichlorobenzene	**2250**			200	"	2500	U	90.0%	60-140		
Hexachlorobutadiene	**2130**			200	"	2500	U	85.3%	60-140		
Naphthalene	**2520**			200	"	2500	U	101%	60-140		
1,2,3-Trichlorobenzene	**2210**			200	"	2500	U	88.5%	60-140		
Surrogate: Dibromofluoromethane	*9.78*				*"*	*10.0*		*97.8%*	*73-114*		
Surrogate: 1,2-Dichloroethane-d4	*9.93*				*"*	*10.0*		*99.3%*	*86-114*		
Surrogate: Toluene-d8	*10.0*				*"*	*10.0*		*100%*	*91-107*		
Surrogate: 4-Bromofluorobenzene	*10.2*				*"*	*10.0*		*102%*	*88-107*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Matrix Spike Dup (E19K014-MSD1) **Source: E191105-07** **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**19.6**	J		2.00	ug/L	25.0	U	78.5%	60-140	18.2	60
Chloromethane	**18.9**	J		2.00	"	25.0	U	75.5%	60-140	2.43	60
Vinyl chloride	**24.7**			2.00	"	25.0	U	98.6%	60-140	2.63	60
Bromomethane	**19.5**			2.00	"	25.0	U	78.0%	60-140	4.21	60
Chloroethane	**22.4**			2.00	"	25.0	U	89.7%	60-140	11.4	60
Trichlorofluoromethane	**24.7**			2.00	"	25.0	U	98.9%	60-140	9.03	60
1,1-Dichloroethene	**25.5**			2.00	"	25.0	U	102%	60-140	0.517	60
Methylene chloride	**21.6**			2.00	"	25.0	U	86.4%	60-140	6.37	60
trans-1,2-Dichloroethene	**23.2**			2.00	"	25.0	U	92.9%	60-140	2.14	60
Methyl tert-butyl ether	**21.4**			2.00	"	25.0	U	85.7%	60-140	6.79	60
1,1-Dichloroethane	**26.8**			2.00	"	25.0	3.21	94.2%	60-140	4.57	60
2,2-Dichloropropane	**25.0**	J		2.00	"	25.0	U	100%	60-140	0.295	60
cis-1,2-Dichloroethene	**23.1**			2.00	"	25.0	0.970	88.4%	60-140	8.28	60
Bromochloromethane	**22.0**			2.00	"	25.0	U	88.0%	60-140	9.22	60
Chloroform	**22.9**			2.00	"	25.0	U	91.6%	60-140	7.65	60
1,1,1-Trichloroethane	**27.2**			2.00	"	25.0	2.46	99.1%	60-140	0.640	60
Carbon Tetrachloride	**24.9**			2.00	"	25.0	U	99.5%	60-140	1.63	60
1,1-Dichloropropene	**24.4**			2.00	"	25.0	U	97.7%	60-140	0.221	60
Benzene	**23.7**			2.00	"	25.0	U	94.9%	60-140	5.80	60
1,2-Dichloroethane	**20.6**			2.00	"	25.0	U	82.4%	60-140	1.82	60
Trichloroethene	**23.2**			2.00	"	25.0	U	92.9%	60-140	0.0517	60
1,2-Dichloropropane	**22.9**			2.00	"	25.0	U	91.6%	60-140	6.68	60
Dibromomethane	**21.2**			2.00	"	25.0	U	84.7%	60-140	3.07	60
Bromodichloromethane	**21.3**			2.00	"	25.0	U	85.3%	60-140	4.45	60
cis-1,3-Dichloropropene	**21.5**			2.00	"	25.0	U	85.9%	60-140	6.14	60
Toluene	**23.1**			2.00	"	25.0	U	92.2%	60-140	4.66	60
trans-1,3-Dichloropropene	**20.6**			2.00	"	25.0	U	82.3%	60-140	0.185	60
1,1,2-Trichloroethane	**21.3**			2.00	"	25.0	U	85.4%	60-140	4.27	60
Tetrachloroethene	**24.0**			2.00	"	25.0	U	95.9%	60-140	4.60	60
1,3-Dichloropropane	**21.4**			2.00	"	25.0	U	85.5%	60-140	2.89	60
Dibromochloromethane	**21.0**			2.00	"	25.0	U	84.0%	60-140	4.42	60
1,2-Dibromoethane (EDB)	**21.7**			2.00	"	25.0	U	86.7%	60-140	3.37	60

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Matrix Spike Dup (E19K014-MSD1) **Source: E191105-07** **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene	**21.9**			2.00	ug/L	25.0	U	87.4%	60-140	0.146	60
1,1,1,2-Tetrachloroethane	**21.6**			2.00	"	25.0	U	86.4%	60-140	1.54	60
Ethylbenzene	**23.6**			2.00	"	25.0	U	94.2%	60-140	2.79	60
m,p-Xylene	**44.5**			4.00	"	50.0	U	88.9%	60-140	2.80	60
o-Xylene	**22.3**			2.00	"	25.0	U	89.3%	60-140	0.152	60
Styrene	**22.6**			2.00	"	25.0	U	90.2%	60-140	0.721	60
Bromoform	**22.0**			2.00	"	25.0	U	88.0%	60-140	10.6	60
Isopropylbenzene	**24.1**			2.00	"	25.0	U	96.4%	60-140	0.596	60
Bromobenzene	**20.6**			2.00	"	25.0	U	82.2%	60-140	0.475	60
1,2,3-Trichloropropane	**25.2**			2.00	"	25.0	U	101%	60-140	5.27	60
n-Propylbenzene	**23.1**			2.00	"	25.0	U	92.4%	60-140	5.84	60
2-Chlorotoluene	**22.4**			2.00	"	25.0	U	89.7%	60-140	0.0268	60
1,3,5-Trimethylbenzene	**23.2**			2.00	"	25.0	U	93.0%	60-140	1.57	60
4-Chlorotoluene	**22.3**			2.00	"	25.0	U	89.0%	60-140	0.649	60
1,1,2,2-Tetrachloroethane	**25.1**			2.00	"	25.0	U	100%	60-140	8.64	60
tert-Butylbenzene	**23.5**			2.00	"	25.0	U	93.9%	60-140	3.08	60
1,2,4-Trimethylbenzene	**22.4**			2.00	"	25.0	U	89.8%	60-140	0.241	60
sec-Butylbenzene	**23.6**			2.00	"	25.0	U	94.4%	60-140	5.11	60
1,3-Dichlorobenzene	**20.5**			2.00	"	25.0	U	82.1%	60-140	3.20	60
p-Isopropyltoluene	**22.7**			2.00	"	25.0	U	90.8%	60-140	7.17	60
1,4-Dichlorobenzene	**20.7**			2.00	"	25.0	U	82.6%	60-140	1.59	60
1,2-Dichlorobenzene	**20.9**			2.00	"	25.0	U	83.4%	60-140	1.56	60
n-Butylbenzene	**22.2**			2.00	"	25.0	U	88.7%	60-140	11.1	60
1,2-Dibromo-3-chloropropane	**29.4**			2.00	"	25.0	U	118%	60-140	11.4	60
1,2,4-Trichlorobenzene	**19.2**			2.00	"	25.0	U	76.8%	60-140	8.59	60
Hexachlorobutadiene	**19.6**			2.00	"	25.0	U	78.5%	60-140	17.9	60
Naphthalene	**23.5**			2.00	"	25.0	U	94.2%	60-140	2.61	60
1,2,3-Trichlorobenzene	**19.5**			2.00	"	25.0	U	78.1%	60-140	3.98	60
Surrogate: Dibromofluoromethane	*9.68*				*"*	*10.0*		*96.8%*	*73-114*		
Surrogate: 1,2-Dichloroethane-d4	*9.77*				*"*	*10.0*		*97.7%*	*86-114*		
Surrogate: Toluene-d8	*9.91*				*"*	*10.0*		*99.1%*	*91-107*		
Surrogate: 4-Bromofluorobenzene	*9.94*				*"*	*10.0*		*99.4%*	*88-107*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Matrix Spike Dup (E19K014-MSD2) **Source: E191105-03** **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**1700**	J		200	ug/L	2500	U	67.8%	60-140	2.10	60
Chloromethane	**1610**	J		200	"	2500	U	64.6%	60-140	12.9	60
Vinyl chloride	**1950**			200	"	2500	U	78.0%	60-140	11.3	60
Bromomethane	**1720**			200	"	2500	U	68.7%	60-140	8.79	60
Chloroethane	**1830**			200	"	2500	U	73.4%	60-140	14.7	60
Trichlorofluoromethane	**2120**			200	"	2500	U	84.8%	60-140	6.18	60
1,1-Dichloroethene	**2190**			200	"	2500	U	87.6%	60-140	9.74	60
Methylene chloride	**1980**			200	"	2500	U	79.3%	60-140	10.2	60
trans-1,2-Dichloroethene	**2130**			200	"	2500	U	85.3%	60-140	8.76	60
Methyl tert-butyl ether	**1990**			200	"	2500	U	79.4%	60-140	12.0	60
1,1-Dichloroethane	**2100**			200	"	2500	U	84.1%	60-140	12.4	60
2,2-Dichloropropane	**2040**	J		200	"	2500	U	81.6%	60-140	12.9	60
cis-1,2-Dichloroethene	**2030**			200	"	2500	U	81.1%	60-140	13.1	60
Bromochloromethane	**2070**			200	"	2500	U	82.6%	60-140	5.01	60
Chloroform	**2060**			200	"	2500	U	82.5%	60-140	12.1	60
1,1,1-Trichloroethane	**2170**			200	"	2500	U	86.9%	60-140	13.5	60
Carbon Tetrachloride	**2210**			200	"	2500	U	88.4%	60-140	6.26	60
1,1-Dichloropropene	**2260**			200	"	2500	U	90.4%	60-140	7.06	60
Benzene	**2150**			200	"	2500	U	85.8%	60-140	10.9	60
1,2-Dichloroethane	**1960**			200	"	2500	U	78.5%	60-140	11.5	60
Trichloroethene	**2080**			200	"	2500	U	83.2%	60-140	9.96	60
1,2-Dichloropropane	**2030**			200	"	2500	U	81.3%	60-140	11.9	60
Dibromomethane	**1950**			200	"	2500	U	78.2%	60-140	14.8	60
Bromodichloromethane	**1960**			200	"	2500	U	78.2%	60-140	12.3	60
cis-1,3-Dichloropropene	**1980**			200	"	2500	U	79.2%	60-140	11.9	60
Toluene	**22900**	J, Q		200	"	2500	19300	143%	60-140	56.9	60
trans-1,3-Dichloropropene	**2010**			200	"	2500	U	80.3%	60-140	13.1	60
1,1,2-Trichloroethane	**2050**			200	"	2500	U	81.9%	60-140	13.0	60
Tetrachloroethene	**2220**			200	"	2500	U	88.7%	60-140	11.8	60
1,3-Dichloropropane	**2100**			200	"	2500	U	84.2%	60-140	10.5	60
Dibromochloromethane	**2030**			200	"	2500	U	81.1%	60-140	11.6	60
1,2-Dibromoethane (EDB)	**2120**			200	"	2500	U	84.9%	60-140	13.4	60

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Volatiles by GC/MS - Quality Control
TechLaw - ESAT Contract

Batch E19K014 - Volatiles

Matrix Spike Dup (E19K014-MSD2) **Source: E191105-03** **Prepared: Nov-25-19 Analyzed: Nov-26-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorobenzene	**2130**			200	ug/L	2500	U	85.0%	60-140	10.8	60
1,1,1,2-Tetrachloroethane	**2040**			200	"	2500	U	81.5%	60-140	13.2	60
Ethylbenzene	**7230**			200	"	2500	4420	112%	60-140	32.7	60
m,p-Xylene	**18200**			400	"	5000	12500	113%	60-140	36.9	60
o-Xylene	**4850**			200	"	2500	2430	96.8%	60-140	24.2	60
Styrene	**2620**			200	"	2500	371	89.9%	60-140	12.8	60
Bromoform	**2040**			200	"	2500	U	81.7%	60-140	10.0	60
Isopropylbenzene	**2280**			200	"	2500	U	91.0%	60-140	12.3	60
Bromobenzene	**2060**			200	"	2500	U	82.4%	60-140	12.4	60
1,2,3-Trichloropropane	**2310**			200	"	2500	U	92.6%	60-140	12.1	60
n-Propylbenzene	**2280**			200	"	2500	93.6	87.5%	60-140	14.0	60
2-Chlorotoluene	**2200**			200	"	2500	U	88.1%	60-140	13.6	60
1,3,5-Trimethylbenzene	**2350**			200	"	2500	144	88.4%	60-140	12.8	60
4-Chlorotoluene	**2110**			200	"	2500	U	84.6%	60-140	14.1	60
1,1,2,2-Tetrachloroethane	**2300**			200	"	2500	U	91.9%	60-140	7.86	60
tert-Butylbenzene	**2220**			200	"	2500	U	88.9%	60-140	4.83	60
1,2,4-Trimethylbenzene	**2670**			200	"	2500	403	90.5%	60-140	7.28	60
sec-Butylbenzene	**2270**			200	"	2500	U	90.7%	60-140	5.03	60
1,3-Dichlorobenzene	**2100**			200	"	2500	U	84.1%	60-140	5.15	60
p-Isopropyltoluene	**2250**			200	"	2500	U	89.9%	60-140	6.00	60
1,4-Dichlorobenzene	**2090**			200	"	2500	U	83.4%	60-140	6.22	60
1,2-Dichlorobenzene	**2070**			200	"	2500	U	82.8%	60-140	8.25	60
n-Butylbenzene	**2220**			200	"	2500	U	89.0%	60-140	7.82	60
1,2-Dibromo-3-chloropropane	**2550**			200	"	2500	U	102%	60-140	1.51	60
1,2,4-Trichlorobenzene	**2080**			200	"	2500	U	83.4%	60-140	7.67	60
Hexachlorobutadiene	**2060**			200	"	2500	U	82.5%	60-140	3.33	60
Naphthalene	**2420**			200	"	2500	U	96.7%	60-140	4.05	60
1,2,3-Trichlorobenzene	**2010**			200	"	2500	U	80.6%	60-140	9.36	60
Surrogate: Dibromofluoromethane	*10.1*				*"*	*10.0*		*101%*	*73-114*		
Surrogate: 1,2-Dichloroethane-d4	*9.66*				*"*	*10.0*		*96.6%*	*86-114*		
Surrogate: Toluene-d8	*9.92*				*"*	*10.0*		*99.2%*	*91-107*		
Surrogate: 4-Bromofluorobenzene	*10.1*				*"*	*10.0*		*101%*	*88-107*		

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	[none]	**Reported:**
Chicago IL, 60604	Project Manager:	Howard Pham	Dec-30-19 15:35

Notes and Definitions

K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Semi Annual 2019 Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 19110325
Laboratory: STAT Analysis Corporation and Eurofins TestAmerica Laboratories, Inc.

Matrix: Groundwater
Collection date: 11/12/19
Analysis/Methods:

Dissolved Gases in Water (Methane) - Method RSKSOP-175
Nitrate and Nitrite (Nitrogen, Nitrate-Nitrite) - Method E300.0
Sulfate in Water (Sulfate) - Method E300.0
Alkalinity (Alkalinity, Total (As CaCO3) - Method 2320 B

Samples in SDG:

STAT Lab ID	Test America Lab ID	Sample Number
19110325-001	680-176897-1	A11-MW001-191112
19110325-002	680-176897-2	A11-MW004B-191112
19110325-003	680-176897-3	A11-MW005-191112
19110325-004	680-176897-4	A11-MW006-191112

Data validation was performed in accordance with the specific analytical methods, National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017) and National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Methane (RSK-175) and Wet Chemistry Parameters

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)	**Yes**		
Laboratory Control Spike Duplicates RPD within limits?	**Yes**		
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
N/A					

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite 19110384-002BMS/BMSD	Acceptable	20%		
Sulfate 19110382-001BMS/BMSD	Acceptable	20%		
Sulfate 19110384-002BMS/BMSD	Acceptable	20%		
Alkalinity 19110325-001BMS / BMSD	Acceptable	20%		
Methane 680-176897-1MS/MSD	Acceptable	30%		

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
LCS/LCSD 680-597726 / 2/ 3	Acceptable	30%		
LCS/LCSD 680-597726 / 5 / 6	Acceptable	30%		

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes No N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**Yes**
Laboratory Control Sample criteria met?	**Yes**
Were the Laboratory Method Blank results all < RL?	**No**
Were the Field Blanks results all < RL?	**N/A**
Was the ICAL criteria met?	**Yes**
Was the CCV criteria met?	**No**
Was the Tuning criteria met?	**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?	**Yes**
Were the Internal Standard areas within ± 50 - 150%?	**N/A**

Comments (note deviations):

Blanks	**Concentration (mg/L)**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite ICMBW1 111419	0.052	0.2	None	Sample results nondetect or > PQL
Sulfate ICMBW1 111419	0.517	4.0	None	Sample results > PQL
Alkalinity ALKMBW1 111719	Nondetect			
Methane MB 680-597726 / 7	Nondetect			

ICB/CCB	**Concentration (mg/L)**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
ICB - Nitrogen, Nitrate-Nitrite	0.052	0.2	None	Sample results nondetect or > PQL
CCB - Nitrogen, Nitrate-Nitrite	0.062	0.2		
CCB - Nitrogen, Nitrate-Nitrite	0.06	0.2		
CCB - Nitrogen, Nitrate-Nitrite	0.043	0.2		
CCB - Nitrogen, Nitrate-Nitrite	0.198	0.2		
CCB - Nitrogen, Nitrate-Nitrite	0.048	0.2		
CCB - Nitrogen, Nitrate-Nitrite	0.044	0.2		
CCB - Nitrogen, Nitrate-Nitrite	0.06	0.2	None	Sample results nondetect or > PQL
ICB - Sulfate	0.496	4	None	Sample results > PQL
CCB - Sulfate	0.485	4		
CCB - Sulfate	0.473	4		
CCB - Sulfate	0.487	4		
CCB - Sulfate	0.488	4		
CCB - Sulfate	0.488	4		
CCB - Sulfate	0.678	4		
CCB - Sulfate	0.772	4	None	Sample results > PQL

Field Blank	**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
N/A				

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
Methane	Acceptable			

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite 19110384-002BMS/BMSD	Acceptable	75-125		
Sulfate 19110382-001BMS/BMSD	Acceptable	75-125		
Sulfate 19110384-002BMS/BMSD	Acceptable	20%		
Alkalinity 19110325-001BMS / BMSD	Acceptable	75-125		
Methane 680-176897-1MS/MSD	Acceptable	80-120		

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Nitrogen, Nitrate-Nitrite ICLCSW1 111419	Acceptable	80-120		
Sulfate ICLCSW1 111419	Acceptable	80-120		
Alkalinity ALKLCSW1 111719	Acceptable	80-120		
Methane LCS/LCSD 680-597726 / 2/ 3 LCS/LCSD 680-597726 / 5 / 6	Acceptable	70-130		

ICAL	RRF	%RSD	Qualifiers	Associated Samples
Methane				
November 21- 13:48	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
Methane					
November 24 - 15:47	Acceptable	Acceptable			
November 24 - 16:26	Acceptable	Acceptable			
November 24 - 19:40	Acceptable	Acceptable			
November 24 -20:01	Acceptable	15.9	15	**J /UJ**	**All samples**
November 24 -22:10	Acceptable	Acceptable			
November 24 -22:23	Acceptable	Acceptable			

ICV / CCV	%R	Limits	Qualifiers	Associated Samples
Nitrogen, Nitrate-Nitrite	Acceptable			
Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes No N/A
Were sampling procedures and design criteria met?	**Yes**
Were holding times met?	**Yes**
Was preservation criteria met? (0° C - 6° C)	**Yes**
Were Chain-of-Custody records complete and provided in data package?	**Yes**

Comments (note deviations): The cooler temperatures were 3.6 & 3.4 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

	Yes No N/A
Comparability:	
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	**Yes**
Comments (note deviations):	
Completeness (90%):	**Yes No N/A**
Are all data in this SDG usable?	**Yes**
Comments (note deviations):	
Sensitivity:	**Yes No N/A**
Are MDLs present and reported?	**Yes**
Do the reporting limits meet project requirements?	**Yes**
Comments (note deviations):	

Comment:

Data is usable as reported.

Data Validator: Kristine Molloy Date: 2/8/2020

Data Reviewer: Cherie Zakowski Date: 2/9/2020

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: December 27, 2019
Date Printed: December 27, 2019

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 19110325 Revision 0

Lab ID: 19110325-001 **Collection Date:** 11/12/2019 1:45:00 PM
Client Sample ID A11-MW001-191112 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date:	**11/14/2019**	Analyst: **CAB**
Nitrogen, Nitrate (As N)	2.3	0.20	*	mg/L	1	11/14/2019
Sulfate	25	4.0	*	mg/L	1	11/14/2019
Alkalinity	**M2320 B**			Prep Date:	**11/17/2019**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	360	20		mg/L CaCO3	1	11/17/2019
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.0027	0.00058		mg/L	1	11/24/2019

Lab ID: 19110325-002 **Collection Date:** 11/12/2019 3:35:00 PM
Client Sample ID A11-MW004B-191112 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date:	**11/14/2019**	Analyst: **CAB**
Nitrogen, Nitrate (As N)	1.3	0.20	*	mg/L	1	11/15/2019
Sulfate	18	4.0	*	mg/L	1	11/15/2019
Alkalinity	**M2320 B**			Prep Date:	**11/17/2019**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	350	20		mg/L CaCO3	1	11/17/2019
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.00029		mg/L	1	11/24/2019

Lab ID: 19110325-003 **Collection Date:** 11/12/2019 11:15:00 AM
Client Sample ID A11-MW005-191112 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date:	**11/14/2019**	Analyst: **CAB**
Nitrogen, Nitrate (As N)	3.2	0.20	*	mg/L	1	11/15/2019
Sulfate	33	4.0	*	mg/L	1	11/15/2019
Alkalinity	**M2320 B**			Prep Date:	**11/17/2019**	Analyst: **MD**
Alkalinity, Total (As CaCO3)	370	20		mg/L CaCO3	1	11/17/2019
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.00029		mg/L	1	11/24/2019

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: December 27, 2019
Date Printed: December 27, 2019

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 19110325 Revision 0

Lab ID: 19110325-004 **Collection Date:** 11/12/2019 9:10:00 AM
Client Sample ID A11-MW006-191112 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **11/14/2019**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	11/15/2019
Sulfate	16	4.0	*	mg/L	1	11/15/2019
Alkalinity	**M2320 B**			Prep Date: **11/17/2019**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	490	20		mg/L CaCO3	1	11/17/2019
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	3.4	0.39		mg/L	1	11/24/2019

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Client Sample Results

Client: STAT Analysis Corp
Project/Site: Methane in Water

Job ID: 680-176897-1

Client Sample ID: A11-MW001-191112

Lab Sample ID: 680-176897-1
Date Collected: 11/12/19 13:45
Matrix: Water
Date Received: 11/14/19 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	2.7		0.58	0.29	ug/L			11/24/19 21:32	1

Client Sample ID: A11-MW004B-191112

Lab Sample ID: 680-176897-2
Date Collected: 11/12/19 15:35
Matrix: Water
Date Received: 11/14/19 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.29	U	0.58	0.29	ug/L			11/24/19 20:53	1

Client Sample ID: A11-MW005-191112

Lab Sample ID: 680-176897-3
Date Collected: 11/12/19 11:15
Matrix: Water
Date Received: 11/14/19 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.29	U	0.58	0.29	ug/L			11/24/19 21:06	1

Client Sample ID: A11-MW006-191112

Lab Sample ID: 680-176897-4
Date Collected: 11/12/19 09:10
Matrix: Water
Date Received: 11/14/19 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	3400		390	39	ug/L			11/24/19 21:19	1

Southeast Rockford Area 11 - Semi Annual 2019 Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 19110382
Laboratory: STAT Analysis Corporation and Eurofins TestAmerica Laboratories, Inc.

Matrix: Groundwater
Collection date: 11/13/19
Analysis/Methods:

Dissolved Gases in Water (Methane) - Method RSKSOP-175
Nitrate and Nitrite (Nitrogen, Nitrate-Nitrite) - Method E300.0
Sulfate in Water (Sulfate) - Method E300.0
Alkalinity (Alkalinity, Total (As CaCO3) - Method 2320 B

Samples in SDG:

STAT Lab ID	Test America Lab ID	Sample Number
19110382-001	680-176995-1	A11-MW002-191113
19110382-002	680-176995-2	A11-MW003-191113
19110382-003	680-176995-3	A11-MW003-191113-D
19110382-004	680-176995-4	A11-MW004A-191113
19110382-005	680-176995-5	A11-MW007-191113

Data validation was performed in accordance with the specific analytical methods, National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017) and National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Methane (RSK-175) and Wet Chemistry Parameters

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?	**Yes**		
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)	**Yes**		
Laboratory Control Spike Duplicates RPD within limits?	**Yes**		
Laboratory Duplicate RPDs within limits?	**N/A**		

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW003-191113	**A11-MW003-191113-D**	Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite 19110384-002 BMS/BMSD	Acceptable	20%		
Sulfate 19110382-001BMS/BMSD	Acceptable	20%		
Sulfate 19110384-002BMS/BMSD	Acceptable	20%		
Alkalinity 19110325-001BMS / BMSD	Acceptable	20%		
Methane N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
LCS/LCSD 680-598224 / 3 / 4	Acceptable			

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes No N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**Yes**
Laboratory Control Sample criteria met?	**Yes**
Were the Laboratory Method Blank results all < RL?	**No**
Were the Field Blanks results all < RL?	**N/A**
Was the ICAL criteria met?	**Yes**
Was the CCV criteria met?	**Yes**
Was the Tuning criteria met?	**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?	**Yes**
Were the Internal Standard areas within ± 50 - 150%?	**N/A**

Comments (note deviations):

Blanks	**Concentration (mg/L)**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite ICMBW1 111419	0.052	0.2	None	Sample results nondetect or > PQL
Sulfate ICMBW1 111419	0.517	4.0	None	Sample results nondetect or > PQL
Alkalinity ALKMBW1 111719	Nondetect			
Methane MB 680-598224 / 8	Nondetect			

ICB/CCB	**Concentration (mg/L)**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
ICB - Nitrogen, Nitrate-Nitrite	0.052	0.2	None	Sample results nondetect or > PQL
CCB - Nitrogen, Nitrate-Nitrite	0.062	0.2	↓	↓
CCB - Nitrogen, Nitrate-Nitrite	0.06	0.2	↓	↓
CCB - Nitrogen, Nitrate-Nitrite	0.043	0.2	↓	↓
CCB - Nitrogen, Nitrate-Nitrite	0.198	0.2	↓	↓
CCB - Nitrogen, Nitrate-Nitrite	0.048	0.2	↓	↓
CCB - Nitrogen, Nitrate-Nitrite	0.044	0.2	↓	↓
CCB - Nitrogen, Nitrate-Nitrite	0.06	0.2	None	Sample results nondetect or > PQL
ICB - Sulfate	0.496	4	None	Sample results nondetect or > PQL
CCB - Sulfate	0.485	4	↓	↓
CCB - Sulfate	0.473	4	↓	↓
CCB - Sulfate	0.487	4	↓	↓
CCB - Sulfate	0.488	4	↓	↓
CCB - Sulfate	0.488	4	↓	↓
CCB - Sulfate	0.678	4	↓	↓
CCB - Sulfate	0.772	4	None	Sample results nondetect or > PQL

Field Blank	**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
N/A				

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate-Nitrite 19110384-002 BMS/BMSD	Acceptable	75-125		
Sulfate 19110382-001BMS/BMSD	Acceptable	75-125		
Sulfate 19110384-002BMS/BMSD	Acceptable	75-125		
Alkalinity 19110325-001BMS / BMSD	Acceptable	75-125		
Methane N/A				

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Nitrogen, Nitrate-Nitrite ICLCSW1 111419	Acceptable	80-120		
Sulfate ICLCSW1 111419	Acceptable	80-120		
Alkalinity ALKLCSW1 111719	Acceptable	80-120		
Methane LCS/LCSD 680-598224 / 3 / 4	Acceptable	70-130		

ICAL	RRF	%RSD	Qualifiers	Associated Samples
Methane				
November 21- 13:48	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
Methane					
November 21 - 16:06	Acceptable	Acceptable			
November 22 - 11:27	Acceptable	Acceptable			
November 27 - 9:40	Acceptable	Acceptable			
November 27 - 17:09	Acceptable	Acceptable			

ICV / CCV	%R	Limits	Qualifiers	Associated Samples
Nitrogen, Nitrate-Nitrite	Acceptable			
Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes No N/A
Were sampling procedures and design criteria met?	Yes
Were holding times met?	Yes
Was preservation criteria met? (0° C - 6° C)	Yes
Were Chain-of-Custody records complete and provided in data package?	Yes

Comments (note deviations): The cooler temperatures were 1.8 & 2.6 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

	Yes	No	N/A
Comparability:			
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	**Yes**		

Comments (note deviations):

	Yes	No	N/A
Completeness (90%):			
Are all data in this SDG usable?	**Yes**		

Comments (note deviations):

	Yes	No	N/A
Sensitivity:			
Are MDLs present and reported?	**Yes**		
Do the reporting limits meet project requirements?	**Yes**		

Comments (note deviations):

Comment:

Data is usable as reported.

Data Validator: *Kristine Molloy* Date: *2/15/2020*

Data Reviewer: Cherie Zakowski Date: 2/16/2020

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: December 27, 2019
Date Printed: December 27, 2019

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 19110382 Revision 0

Lab ID: 19110382-001 **Collection Date:** 11/13/2019 12:15:00 PM
Client Sample ID A11-MW002-191113 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **11/14/2019**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	11/14/2019
Sulfate	ND	4.0	*	mg/L	1	11/14/2019
Alkalinity	**M2320 B**			Prep Date: **11/17/2019**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	400	20		mg/L CaCO3	1	11/17/2019
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	26	0.039		mg/L	1	11/27/2019

Lab ID: 19110382-002 **Collection Date:** 11/13/2019 9:10:00 AM
Client Sample ID A11-MW003-191113 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **11/14/2019**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	11/14/2019
Sulfate	8.5	4.0	*	mg/L	1	11/14/2019
Alkalinity	**M2320 B**			Prep Date: **11/17/2019**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	390	20		mg/L CaCO3	1	11/17/2019
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	6.1	0.039		mg/L	1	11/27/2019

Lab ID: 19110382-003 **Collection Date:** 11/13/2019 9:10:00 AM
Client Sample ID A11-MW003-191113-D **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **11/14/2019**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	11/14/2019
Sulfate	8.6	4.0	*	mg/L	1	11/14/2019
Alkalinity	**M2320 B**			Prep Date: **11/17/2019**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	380	20		mg/L CaCO3	1	11/17/2019
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	5.8	0.039		mg/L	1	11/27/2019

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: December 27, 2019
Date Printed: December 27, 2019

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 19110382 Revision 0

Lab ID: 19110382-004 **Collection Date:** 11/13/2019 1:45:00 PM
Client Sample ID A11-MW004A-191113 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **11/14/2019**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	0.23	0.20	*	mg/L	1	11/14/2019
Sulfate	32	4.0	*	mg/L	1	11/14/2019
Alkalinity	**M2320 B**			Prep Date: **11/17/2019**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	330	20		mg/L CaCO3	1	11/17/2019
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.038	0.00029		mg/L	1	11/27/2019

Lab ID: 19110382-005 **Collection Date:** 11/13/2019 10:30:00 AM
Client Sample ID A11-MW007-191113 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **11/14/2019**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	11/14/2019
Sulfate	13	4.0	*	mg/L	1	11/14/2019
Alkalinity	**M2320 B**			Prep Date: **11/17/2019**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	470	20		mg/L CaCO3	1	11/17/2019
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	14	0.039		mg/L	1	11/27/2019

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Client Sample Results

Client: STAT Analysis Corp
Project/Site: Methane in Water

Job ID: 680-176995-1

Client Sample ID: A11-MW002-191113

Lab Sample ID: 680-176995-1
Date Collected: 11/13/19 12:15
Matrix: Water
Date Received: 11/15/19 12:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	26000		390	39	ug/L			11/27/19 11:38	1

Client Sample ID: A11-MW003-191113

Lab Sample ID: 680-176995-2
Date Collected: 11/13/19 09:10
Matrix: Water
Date Received: 11/15/19 12:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	6100		390	39	ug/L			11/27/19 11:51	1

Client Sample ID: A11-MW003-191113-D

Lab Sample ID: 680-176995-3
Date Collected: 11/13/19 09:10
Matrix: Water
Date Received: 11/15/19 12:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	5800		390	39	ug/L			11/27/19 12:04	1

Client Sample ID: A11-MW004A-191113

Lab Sample ID: 680-176995-4
Date Collected: 11/13/19 13:45
Matrix: Water
Date Received: 11/15/19 12:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	38		0.58	0.29	ug/L			11/27/19 12:17	1

Client Sample ID: A11-MW007-191113

Lab Sample ID: 680-176995-5
Date Collected: 11/13/19 10:30
Matrix: Water
Date Received: 11/15/19 12:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	14000		390	39	ug/L			11/27/19 12:30	1