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Subject: Carrier Corporation, Thompson Road Facility, Syracuse, New York
Corrective Action Order — Index CO 7-20051118-4
Site Registry No.: 734043
2017 Annual Site-Wide Groundwater Monitoring Report

Dear Mr. Warner

On behalf of United Technologies Corporation (UTC), AECOM Technical Services, Inc. (AECOM) is hereby submitting the attached 2017 Annual Site-Wide Groundwater Monitoring Report.

Please call me at (716) 923-1150 if you have any questions.

Sincerely,

Robert E. Murphy, PE
Project Manager

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cc: Michael Belveg, NYSDEC
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ANNUAL SITE-WIDE GROUNDWATER MONITORING 2017

United Technologies Corporation/Carrier Site
Thompson Road, Syracuse, NY

Corrective Action Order – Index CO 7-20051118-4
NYSDEC Site Registry #734043

Project Number: 60557397

March 2018

Prepared for:
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1. Introduction

United Technologies Corporation (UTC) is performing environmental remediation activities at the Carrier Thompson Road Facility (Site) in Syracuse, Onondaga County, New York (**Figure 1**). UTC retained AECOM Technical Services, Inc. (AECOM) to provide environmental engineering and investigation support services. Environmental work at the Site is being performed in accordance with the January 2006 Corrective Action Order on Consent (CO) negotiated with the New York State Department of Environmental Conservation (NYSDEC).

Groundwater at the Site has been sampled on a routine basis in accordance with the 2009 Site-Wide Monitoring Plan (SWMP) prepared by EnSafe, Inc. (EnSafe). At that time, there were approximately 20 monitoring wells and 45 piezometers across the Site. Since 2009, monitoring points have been added to the monitoring network as a result of additional investigation activities and interim remedial measures. There are currently 95 monitoring wells and over 38 piezometers located across the Site (see **Figure 2**). The last Site-wide groundwater monitoring event took place in June 2015. Site-wide groundwater sampling in 2016 was postponed until 2017, with NYSDEC approval, because there was a significant amount of investigation work underway in 2016 that included groundwater sampling and reporting. A supplemental groundwater sampling event occurred in February 2017 for newly installed wells MW-69 through MW-84 which were installed in January 2017. Pre-existing well MW-08 was also sampled during the February 2017 event. The findings were reported in the Supplemental Well Installation Sampling and Analysis Report (AECOM April 2017).

AECOM prepared and submitted a revised Annual Site-Wide Groundwater Monitoring Plan (SWGMP) in October 2017. It was approved by the NYSDEC on October 27, 2017. Groundwater monitoring and sampling was performed in November 2017 in accordance with new Annual SWGMP. This report presents the procedures and findings of the November 2017 sampling event.

2. Background

2.1 Facility Description

The Site is located in the northeast portion of Syracuse, New York, approximately one mile south of the New York State Thruway. The Site is bordered by New York State Route 298 to the north, Thompson Road to the west, Kinne Street to the east, and a baseball field and industrial area (Verizon) to the south. The Site is relatively flat with a slight downward slope to the north toward Sanders Creek. The Site consists of pavement, buildings, areas of lawn covering former slabs of demolished buildings, and general landscaping.

2.2 Site History

Prior to World War II, the property was utilized as farmland. Development of the Site as an industrial facility began around 1942. The facility was initially operated by General Electric and included manufacturing activities related to national defense. Subsequent Site operators included the Defense Corporation - a government-owned World War II manufacturing facility, and Syracuse University.

The Site was purchased in the 1950s by Carrier Corporation (Carrier). The Carrier facility produced a variety of products associated with heating, ventilation, and air conditioning industry. Carrier continues to operate the facility, although several of the large, original buildings have been demolished.

Subsurface investigations have been conducted at the Site since the late 1980's. During the course of these investigations, numerous groundwater monitoring wells and piezometers were installed. Some of the investigations found volatile organic compound (VOC) and/or polychlorinated biphenyl (PCB) impacts in groundwater. Interim remedial measures have been, and continue to be, employed to address identified impacts.

2.3 Geology and Hydrogeology

The Site consists of three primary hydrostratigraphic units as follows:

Upper Water-Bearing Zone

- Fill composed of silty clay with varying amounts of gravel, cobbles, brick, metal, and concrete. This unit ranges in thickness from 1 foot (ft) to 8 ft.
- Silty clay with silt and sand lenses ranging in thickness from 2 ft to 15 ft.

Confining Clay Unit

- Gray clay confining unit ranging in thickness from 7 ft to13 ft.

Lower Water-Bearing Zone

- Clayey silt to silt ranging in thickness from 6 ft to10 ft.
- Red brown fine to medium sand, ranging in thickness from 2 ft to 6 ft.
- Dense clay/silt unit, ranging in thickness from 4 ft to 12 ft.
- Red brown to green gray weathered shale.

The shallow monitoring wells and all piezometers at the Site are screened in the upper water-bearing zone and deep monitoring wells are screened in the lower water-bearing zone. Depth to water in the upper water-bearing zone ranges approximately 1 ft to 14 ft below ground surface (bgs). The measured well depth to water in the lower water-bearing zone ranges from artesian conditions to approximately 8 ft bgs. The artesian conditions are present in two wells (MW-54D and TR3-GB-03) in the former Building TR-3 area. Overall, groundwater flow is generally north-northwest across the Site in both the upper and lower water-bearing zones.

2.4 Existing Groundwater Monitoring Well Network

There are currently 95 monitoring wells and over 38 piezometers present at the Site. Ten of the 95 monitoring wells terminate in the lower water-bearing zone and the remainder are in the upper water-bearing zone. The piezometers all terminate in the upper water-bearing zone.

The monitoring points were installed to monitor groundwater conditions at various areas including:

- Former Solid Waste Management Units (SWMUs) 1, 2, 3, and 4, which were concrete and steel storage tanks located in the area between buildings TR-1 and TR-4, north of building TR-6.
- Former Building TR-1, located in the western portion of the Site.
- Former Building TR-2, located in the northwestern portion of the Site, north of former Building TR-1.
- Parking Lot R, located in the north central portion of the Site, a paved portion of former Building TR-3.
- Building TR-3 North Wall/Storm Water Treatment Plant (SWTP), located in the north central portion of the Site.
- Manhole MH3 located inside the SWTP.
- Former Administrative and Research (A&R) Building, located in the northeastern portion of the Site.
- Former Debris Pile, located in the southeastern portion of the Site.

Monitoring wells and piezometers have been installed at the former landfill referred to as Area of Concern (AOC) G west of Thompson Road. However, this Annual SWGMP focuses on the Thompson Road Campus portion of the Site where on-going operations occur and does not include AOC G.

Groundwater sampling at the Site was conducted semi-annually from 1990 through 1999, and then on an annual basis from 2000 to 2017 (NYSDEC approved the delay of annual sampling in 2016 due to significant investigation activity being performed).

The Annual SWGMP (as revised in 2017) was developed considering the following remedial goals and criteria for groundwater presented in the CO:

- Groundwater monitoring must demonstrate compliance with all applicable state and federal water quality standards.
- If groundwater standards are not met, monitoring must demonstrate that natural attenuation continues to reduce the concentration of contaminants in the already contaminated areas; or that contaminant concentrations have stabilized and do not pose a significant threat to human health or the environment.
- Groundwater monitoring must continue to demonstrate that contaminants are not migrating off-Site and are not causing a threat to human health or the environment.

The Annual SWGMP includes inspection of wells, collection of water levels for use in determining groundwater flow, and collection and analyses of groundwater samples to evaluate groundwater quality.

For selection of water level monitoring and groundwater sampling points in the Annual SWGMP, the existing monitoring well/piezometer network was considered to consist of the following three subsets:

1. Perimeter Wells– consisting of monitoring wells located along the perimeter of the Site. These locations are monitored and sampled to assess groundwater conditions up-gradient, down-gradient, and side-gradient of the Site.
2. Area Specific Wells/Piezometers – consisting of monitoring points installed in AOCs, SWMUs, and other areas of investigation. These locations are monitored and sampled to assess groundwater conditions in the vicinity of known areas of contamination. These specific areas are:

- Former Building TR-1
- Former Building TR-3 and Parking Lot R
- Existing SWTP
- Former A&R Building
- Former SWMUs 1 through 4

3. Miscellaneous Interior Wells/Piezometers – consisting of locations not included in items 1 and 2 above.

Not all monitoring wells and piezometers at the Site are monitored and/or sampled. For the Annual SWGMP, in areas where the monitoring well and/or piezometer density is high, representative wells and/or piezometers have been selected for the monitoring and sampling program.

3. Site-Wide Groundwater Monitoring Activities

3.1 Monitoring Point Inspections

For the initial sampling event conducted after approval of the revised Annual SWGMP, a comprehensive inspection of the 133 monitoring wells and piezometers listed in **Table 1** was made for general exterior conditions. The 94 locations selected for groundwater level monitoring were also inspected for interior conditions. The inspections determined the condition of each monitoring point's exterior and interior (as appropriate), such as concrete pad, bolts, lid, curb box, riser, annular space, and J-plug. The findings of the monitoring point inspections are summarized on **Table 2.**

The following wells could not be located and are presumed to be paved or sodded over:

Monitoring Well/Piezometer	Status
AR-SB-04	Presumed sodded over. Part of monitoring program for water level measurements.
B001-08	Presumed paved over. Part of monitoring program for water level measurements.
B001-14	Presumed paved or sodded over. Well not part of the current monitoring program.
MW-11	Could not be located. Beneath temporary access road installed for the TR-3 North Wall sheet pile installation project. Well not part of the current monitoring program.
MW-20	Presumed paved over. Part of monitoring program for water level measurements.
MW-53	Could not be located. Well is the area of the TR-3 North Wall sheet pile installation. Well not part of the current monitoring program.
MW-59	Could not be located. Beneath temporary access road installed for the TR-3 North Wall sheet pile installation project. Well not part of the current monitoring program.
SSIPZ05	Could not be located, the other wells of this type in the vicinity are PVC stick-ups (with no steel protective casing). Part of monitoring program for water level measurements.

The following wells were identified as in need of maintenance (note: wells posing an immediate tripping hazard were repaired during the groundwater monitoring and sampling event):

Monitoring Well/Piezometer	Status
B001-04	Concrete separated from collar, lid spins, one bolt missing, other bolt corroded in place. Repaired November 16, 2017.
B001-06	Concrete separated from collar, lid spins. Repaired November 16, 2017.
B001-07	Partially paved over, both ears broken. Repaired November 16, 2017.
B001-10	Concrete deteriorated, needed new road box and concrete. Repaired November 16, 2017.
B001-13	Road box and casing are loose.
MW-06	Missing J-plug. Well has a stick-up casing and standard J-plug will not fit. May need a cap.
MW-14	Raised concrete pad.
MW-14D	Raised concrete pad.
MW-17	Missing bolts.

Monitoring Well/Piezometer	Status
MW-19	Missing bolts.
MW-18	Bolts stripped.
MW-22D	Stick-up appears to have been struck by plow – it is bent over at grade and the riser is cracked. Needs new riser and protective casing.
MW-41D	Two broken ears.
MW-45	Broken ears, no lid, J-plug ears broken. Repaired November 15, 2017.
MW-46	Bolts stripped. Repaired March 13, 2018.
MW-47	One bolt missing.
MW-54D	Concrete cracked.
MW-55	Road box and concrete dislodged, and riser bent due to proximity to sheet pile wall at TR-3 North Wall. Well appears repairable.
MW-56	Road box loose, ground has settled in vicinity.
MW-57	Concrete cracked, riser slightly leaning.
MW-62	Bolts stripped.
MW-66	Road box has shifted downhill, riser is tight to side of casing, difficult to get j-plug off, needs road box reset.
TR3-GB-03	Lid missing, needs new road box.

3.2 Water Level Monitoring

On November 7 and 8, 2017, water levels were measured from 89 of the 94 monitoring wells and piezometers specified in the Annual SWGMP. The following points specified in the Annual SWGMP could not be accessed: AR-SB-04 (unable to locate), B001-08 (paved over), MW-20 (paved over), MW-22D (protective casing bent over/riser cracked), and SSIPZ05 (unable to locate). Water level measurements were performed using an electronic oil/water interface probe. The measurements included determination of the thickness of light non-aqueous phase liquid (LNAPL), where present. Both the lower and upper water-bearing zones were monitored. Water level measurement for monitoring wells and piezometers are presented in **Table 2.**

Water level measurements were used to determine direction of groundwater flow across the Site through the generation of potentiometric contour maps of both the upper and lower water-bearing zones. In addition, some areas require closer evaluation for the purposes describe below:

- Monitoring points have been included in the former A&R Building area to evaluate the apparent groundwater mounding condition observed during the A&R area investigation in 2016.
- Monitoring points have been included in the former Buildings TR-1 and TR-3 area to evaluate LNAPL thickness and potential migration.
- Monitoring points have been included in the former Building TR-3 area to evaluate the horizontal well capture zone.

The groundwater elevation and LNAPL thickness measurements are presented in **Table 2**. The groundwater elevation on average was 0.43 ft higher than the previous monitoring event in June 2015.

3.2.1 Upper Water-Bearing Zone Groundwater Flow

Groundwater contours for the upper water-bearing zone are presented in **Figure 3**[1]. Generally, flow across the site is north-northwest across the majority of the site. Exceptions are as follows:

- Monitoring points were included in the former A&R Building area to evaluate the apparent groundwater mounding condition observed during the A&R area investigation in 2016. The monitoring results show that the mounding condition observed in 2016 is still present based on measurement recorded in AR-MW-01, AR-MW-02 and AR-MW-03. Considering the past infrastructure in this area of the Site, this localized mounding appears attributable to isolated groundwater recharge associated with an area that is not underlain by concrete slabs and infrastructure associated with former buildings and parking lots. The absence of these impervious structures allows for enhanced groundwater recharge in this area. The enhance recharge in this area results in a groundwater mound and the fine grained texture of the subsurface soil results in a minimal flux of groundwater away from the mound. South of the mound, in the vicinity of wells AR-MW-04, AR-MW-05, and AR-MW-06 potentiometric contours reflect groundwater flow from west to east. This area coincides with the orientation of a former sewer line that drained to the east.
- Monitoring points were included in and around former Building TR-3 to evaluate the capture zone of the horizontal well installed upgradient (south) of the sheet pile wall. A detail of this area is provided in **Figure 4**. The horizontal well, which typically discharges approximately 3 gallons per minute, is capturing groundwater as designed. This is evidenced by the absence of a mounding condition and water table depression behind the sheet-pile wall.
- Monitoring points MW-23 and MW-71 were added along Thompson Road to better define groundwater flow west of former Building TR-1. Water levels measured in a select area beneath the former Building TR-1 are affected by the presence of LNAPL in this area. Water levels in this area are elevated and reflect a groundwater mound as depicted on **Figure 3**. As with the mound near the A&R Building, this mound appears indicative of an area of enhanced recharge, coupled with fine grained soil resulting in minimal flux away from the mound. Overall, the water levels in this area reflect groundwater flow to the north and west.

3.2.2 Lower Water-Bearing Zone Groundwater Flow

Groundwater contours for the lower water-bearing zone are presented in **Figure 5**. Flow in the lower water-bearing zone is generally in a westerly direction.

3.2.3 LNAPL Thickness Results

Monitoring in the former Building TR-1 and TR-3 areas included evaluating LNAPL thickness and potential migration. As shown below, LNAPL was observed at the same wells in 2017 as in 2015 with only minor changes in thickness; LNAPL was not observed at any new locations indicating that the LNAPL has not migrated. As indicated above, MW-20 was not measured as it appears to have been paved over.

Monitoring Point	2015 LNAPL Thickness (Ft)	2017 LNAPL Thickness (Ft)
DCDPZ01	0.30	0.62
DCDPZ04	0.37	0.22
MW-20	0.02	Unable to locate well.
MW-25	4.06	2.90
MW-31	0.13	0.01
MW-33	Sheen	Sheen
MW-46	0.16	0.01

[1] There is no survey data for the B-series piezometers listed in Table 1. Therefore, measurements from these piezometers were not included in the generation of groundwater contours presented in Figure 3.

Monitoring Point	2015 LNAPL Thickness (Ft)	2017 LNAPL Thickness (Ft)
PLR001	0.04	0.27
SSIPZ04	2.34	3.02

3.3 Groundwater Sampling

Groundwater samples were collected from 32 monitoring wells (**Table 1**) using USEPA/NYSDEC low-flow sampling procedure. No piezometers were sampled. All wells were sampled using a peristaltic pump, with dedicated tubing used at each well. In-line filters (for PCB samples) were also dedicated and disposed of after sampling. Water quality parameters of pH, conductivity, temperature, dissolved oxygen (DO), oxygen reduction potential (ORP), and turbidity were periodically recorded during well purging.

Samples were collected into laboratory supplied bottleware and delivered to Eurofins Spectrum Analytical Inc. (Eurofins), a New York State Environmental Laboratory Approval Program (ELAP) certified laboratory located in Agawam, MA. The samples were delivered under Chain of Custody protocol. All 32 locations were analyzed for VOCs and five locations (MW-19, MW-23, MW-26, MW-38, and MW-44) were analyzed for PCBs (filtered and unfiltered samples). Samples scheduled for PCB analyses were filtered in the field. Copies of the Field Purge Logs are included in **Appendix A**.

3.3.1 Disposition of Investigation-Derived Waste

Groundwater generated during well purging and sampling activities was managed as investigation-derived waste (IDW) and was transferred to the on-Site SWTP for treatment. The interface probe was decontaminated by spraying with Alconox and potable water solution, wiping with paper towels, followed by a potable water rinse (wiping the probe with clean paper towels prevented the accumulation of soapy water which cannot be treated at the SWTP).

Solid IDW (e.g., tubing, paper towels, and personal protective equipment) was disposed of in the solid waste dumpster at the SWTP.

4. Laboratory Analytical Results

Samples from 32 locations were submitted to Eurofins Laboratory for analysis of VOCs with five locations also analyzed for PCBs (filtered and unfiltered). Three duplicate samples and one matrix spike/matrix spike duplicate (MS/MSD) pair were submitted for VOC analysis for quality assurance/quality control (QA/QC) purposes. Similarly, one duplicate sample and one MS/MSD pair were submitted for analysis of PCBs.

Upon receipt of the analytical results, data validation was performed by an AECOM chemist following NYSDEC DER-10 and USEPA Region II data validation procedures. The data validation results are presented in a Data Usability Summary Report (DUSR) provided in **Appendix B**.

The DUSR presents deviations from the relevant QC requirements and the associated qualifications to the sample data warranted by these deviations. QC items discussed in detail in the DUSR include surrogate sample recoveries, matrix spike recoveries, duplicate sample analyses, instrument calibration, and performance and method and field blank sample analyses. The report also presents copies of the laboratory reporting forms with hand written qualifications made by the data validator. The data presented in the summary tables included in this report reflect these qualifications.

Validated laboratory analytical results are presented in **Table 3 and Figure 6.** The groundwater analytical results are compared to the NYS Ambient Water Quality Standards (AWQS) and Guidance Values in Technical & Operational Guidance Series (TOGS) Version 1.1.1, June 1998, with June 2004 Addendum. A statistical summary of the results is presented as **Table 4**. Statistics include the number of detections, frequency of detections, range of detections (minimum, maximum, average), number of exceedances, and the location of the maximum value. The following presents a summary of the results:

- PCBs were not detected in filtered or unfiltered samples from the five wells sampled (MW-19, MW-23, MW-26, MW-38, and MW-44).
- VOCs were detected in 28 of the 32 locations.
- Seventeen locations had one or more VOCs present at a concentration higher than its respective TOGS guidance value.
- The most commonly detected VOC group was chlorinated VOCs, which were detected at concentrations above groundwater criteria in 20 samples. The chlorinated VOCs detected at concentrations exceeding criteria include trichloroethene (TCE) and its breakdown products cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichlorethane (1,1-DCA), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride (VC).
  - Concentrations of chlorinated VOCs exceeding groundwater criteria ranged from 5.03 micrograms per liter (µg/L) TCE to 137,000 µg/L TCE.
  - TCE concentrations were highest at locations MW-18, MW-23, MW-69, and TR3-PW-01. Concentrations ranged from 491 to 137,000 µg/L. The highest concentration occurred at TR3-PW-01. Concentrations ranged from non-detect to 226 µg/L at the other wells.
  - Cis-1,2-DCE concentrations were highest at locations MW-18, MW-23,and TR3-PW-01. Concentrations ranged from 5,970 to 24,700 µg/L. The highest concentration occurred at TR3-PW-01. Concentrations ranged from non-detect to 729 µg/L at the other wells.
  - The highest concentrations of trans-1,2-DCE and VC occurred in MW-18 at 38.0 and 1,840 µg/L, respectively.
  - The highest concentration of 1,1,1-trichloroethane (1,1,1-TCA) and 1,1-DCA occurred in well MW-23 at 97.0 and 271 µg/L, respectively.
- The only other non-chlorinated VOCs detected at concentrations above the groundwater criteria were ethylbenzene and toluene, which were only detected in well MW-23.

- Water quality measurements recorded at the time of sample collection (see purge logs in **Appendix A**) indicate low DO and ORP in some of the wells with the highest VOC concentrations (e.g., MW-18, MW-23, and TR3-PW-01) suggesting that groundwater conditions are favorable for anaerobic degradation (reductive dechlorination). The presence of TCE breakdown products (e.g. cis-1,2-DCE and VC) further suggests that reductive dechlorination is ongoing.

5. Evaluation of Findings

Evaluation of the data is discussed in the following sections by area. Comparisons are made to historical data that is attached for reference in **Appendix C**.

5.1 Perimeter Well Network

Twelve monitoring wells located along the Site perimeter were sampled to evaluate whether contaminants are migrating on- or off-Site. Two of the twelve perimeter wells (MW-21 and MW-71) contained compounds at concentrations above the groundwater criteria.

Monitoring well MW-21 is located in the northwestern portion of the Site downgradient of the former Building TR-2. The compound exceeding criteria in MW-21 was TCE with a concentration of 5.23 µg/L. The groundwater criterion for TCE is 5 µg/L.

Monitoring well MW-71 is located on the western edge of the Site and is downgradient of former Building TR-1 area, based on groundwater elevations presented in **Figure 3**. Compounds exceeding criteria in MW-71 were TCE (89.3 µg/L), cis-1,2-DCE (67.7 µg/L) and VC (8.79 µg/L). The groundwater criteria for cis-1,2,-DCE and VC are 5 µg/L and 2 µg/L, respectively.

5.2 Former A&R Building Area

Two of the six monitoring wells in the former A&R Building area were sampled:

- Groundwater level measurements recorded in 2016 indicated that monitoring well AR-MW-02 was located downgradient of an apparent groundwater high in the area of the A&R Building. There were no exceedances of groundwater criteria at this location in 2016 or 2017.
- In 2016, monitoring well AR-MW-06 was the only well in the A&R area that had an exceedance of groundwater criteria. AR-MW-06 contained the cis-1,2-DCE, toluene, TCE, and VC at concentrations exceeding groundwater criteria in 2016. In 2017, only cis-1,2-DCE was present at a concentration exceeding groundwater criterion. The concentration of cis-1,2-DCE decreased from 393 µg/L in 2016 to 6.78 µg/L in 2017.

5.3 Former Building TR-1 Area

Three wells in the former Building TR-1 area were sampled (MW-23, MW-26, and MW-38), along with perimeter monitoring wells MW-19 and MW-71. The samples were analyzed for VOCs and MW-19, MW-23, MW-26, and MW-38 were analyzed for PCBs.

- PCBs have historically been detected in wells MW-23, MW-26, and MW-38. No PCBs were detected in these wells in November 2017.
- Monitoring well MW-23 is located off the west-northwest side of the area and has historically contained elevated levels of VOCs. VOC results from the November 2017 sampling event were consistent with the June 2015 event. The highest concentrations of 1,1,1-TCA, 1,1-DCA, ethylbenzene, and toluene detected in November 2017 occurred at this well. However, perimeter monitoring well MW-19, located approximately 60 ft to the northwest, exhibited no exceedances of groundwater criteria.
- Monitoring well MW-26 is located in the west-central area of former Building TR-1 where elevated VOCs were previously detected. This area also historically contained PCBs. Only one VOC was detected in November 2017 at a concentration above the groundwater criteria. The November 2017 sampling found only TCE, detected at 8.17 µg/L. This was consistent with the June 2015 event when TCE, at 5.9 µg/L, was the only VOC detected at a concentration above the criterion.
- Monitoring well MW-38 is located on the northwest, downgradient side of former Building TR-1. The November 2017 results show that cis-1,2-DCE and TCE were detected at concentrations slightly above the

respective groundwater criterion. These results were consistent with, but slightly lower, than the June 2015 sampling event.

5.4 Former Building TR-3/SWTP Area and Parking Lot R

In 2016, a sheet pile wall was installed on the north side of former Building TR-3 to contain known concentrations of VOCs in groundwater beneath the former building footprint. A horizontal well was also installed upgradient of the sheet pile wall to capture the groundwater. The groundwater is treated at the adjacent SWTP, which is in the area of the northeast corner of former Building TR-3.

Historically, the area of highest VOC concentrations found at the Site was the northwest corner of the SWTP.

Nine monitoring wells in the former Building TR-3/SWTP area were analyzed for VOCs (MW-18, MW-44, MW-45, MW-48, MW-50, MW-57, MW-58, MW-66, and TR3-PW-01). One of those wells (MW-44) was also analyzed for PCBs. Also, two perimeter wells, MW-79 and TR3-MW-02, are also being used to evaluate groundwater quality in the former Building TR-3/SWTP area.

Monitoring well MW-18 is located on the north side of the SWTP, just south (upgradient) of the sheet pile wall and well TR3-PW-01 is located approximately 150 ft west of MW-18, also just south of the sheet pile wall.

Groundwater analytical data dating back to 2001 for MW-18 show that the well had some of the highest VOC concentrations in the area and that those concentrations have decreased over time. VOC concentrations detected in November 2017 were higher compared to the June 2015 results. In particular, the TCE concentration detected in November 2017 was 3,950 µg/L compared to the concentration of 630 µg/L detected in June 2015. The 2017 concentration was the highest detected at this location since 2002 when the concentration of 5,580 µg/L was detected (**see Appendix C**). The increase of VOC concentrations in MW-18 is likely attributable to the installation of the sheet pile wall and subsequent groundwater pumping in the area.

TR3-PW-01 was sampled following its installation in 2016 (prior to installation of the sheet pile wall) and contained TCE at a concentration of 195,000 µg/L. TCE was detected at a concentration of 137,000 µg/L during the November 2017 sampling event. These concentrations suggest the likely presence of free-phase TCE near this location. Wells MW-50 and MW-57 are located farther west of TR3-PW-01 and the previously identified limited impacts observed in those wells have not changed indicating that the elevated VOCs detected in TR3-PW-01 and MW-18 are remaining localized to those well areas.

Wells MW-58 and MW-66 are located north (downgradient) of the sheet pile wall between the wall and Sanders Creek. These wells have limited sampling history, having only been previously sampled in December 2014 and June 2015. However, the November 2017 results (first sampling event since the installation of the sheet pile wall and the operation of the horizontal well) for TCE in MW-58 decreased by an order of magnitude and decreased to below the criteria at MW-66. The November 2017 results show that the elevated VOC concentrations detected on the south, (upgradient) side of the sheet pile wall are not observed on the downgradient side which suggests that groundwater with elevated concentrations of TCE is being contained upgradient of the wall.

No VOCs were detected at concentrations exceeding criteria in the downgradient perimeter wells (MW-79 and TR3-MW-02) located north of Sanders Creek.

Monitoring wells MW-44 and MW-45 are located farther south of the sheet pile wall in an area within the footprint of former Building TR-3 and currently referred to as Parking Lot R. These wells were previously sampled in 2013, 2014, and 2015. During those sampling events, both wells contained TCE at concentrations above the groundwater criteria and MW-45 contained cis-1,2-DCE at concentrations slightly above the criteria in two of the three events. In November 2017, no VOCs were detected at concentrations exceeding their respective criteria in MW-44. At MW-45 the concentrations were generally consistent with the historical results. PCBs, which had been detected once in MW-44 (0.61 µg/L in 2014), were not detected in November 2017.

Monitoring well MW-48 is located on the south side of the SWTP in an area where elevated VOCs have historically been detected. VOCs were significantly lower during the November 2017 event when compared to the historical data. For example, TCE concentrations were 690, 500, 97, and 10.7 µg/L in 2013, 2014, 2015, and 2017, respectively.

5.5 SWMUs 1 through 4

Two monitoring wells, MW-03S and MW-03D, are located in this former SWMU area south of Building TR-18S. Groundwater sampling of these two wells dates back to 1985. The analytical results show that the historical high of 32,000 µg/L for TCE detected in 1990 in MW-03S had decreased to a historical low of 390 µg/L in 2014 before rising to 580 µg/L in 2015. The November 2017 results are higher at 729 µg/L. The November 2017 detections of 1,1-DCA and VC were generally consistent with the 2014 and 2015 results.

The detection of TCE, at 9.78 µg/L, in MW-03D was consistent with the historical results.

5.6 Miscellaneous Interior Wells

Monitoring wells MW-69, MW-70, MW-75, and MW-84 were installed in 2017 to provide groundwater quality data for locations within the interior of the Site and were selected for inclusion in the Annual SWGMP.

- Monitoring well MW-69 is located between buildings TR-4 and TR-6. The VOCs 1,1-DCA, cis-1,2-DCE, trans-1,2-DCE, TCE, and VC were detected at concentrations exceeding groundwater standards in samples collected in February and November 2017. The November 2017 concentrations decreased when compared to the February 2017 data (e.g., TCE decreased from 3,170 to 1,060 µg/L).
- Monitoring well MW-70 is located within the footprint of former Building TR-2. No compounds were detected at concentrations exceeding groundwater criteria during the February or November 2017 sampling events.
- Monitoring well MW-75 is located between buildings TR-5 and TR-19. No compounds were detected at concentrations exceeding groundwater criteria during the February or November 2017 sampling events.
- Monitoring well MW-84 is located between buildings TR-4 and TR-5. TCE was detected at a concentration of 8.26 µg/L in November 2017 compared to a concentration of 46.4 µg/L detected in February 2017.

6. Summary and Recommendations

Monitoring and sampling was performed in November 2017 in accordance with the Annual SWGMP.

It is recommended that the needed well repairs discussed in Section 3.1 be performed in 2018. At that time, another attempt should be made to locate missing wells/piezometers AR-SB-04, B001-08, B001-14, MW-11, MW-20, MW-53, MW-59, and SSIPZ05. If any are located and usable, repairs to the wells should be made as needed. If the wells are located and compromised, they should be considered for proper decommissioning. It is also recommended that a location and elevation survey be conducted for any repaired wells and for the B-series piezometers located along and near Telergy Parkway. Once the condition of these wells and piezometers is determined, the Annual SWGMP should be revised to eliminate those that could not be found or need decommissioning and include the B-series piezometers.

As required by the remedial goals and criteria for groundwater presented in the CO, the November 2017 groundwater analytical data identifies locations that are within compliance with applicable TOGS. For locations with groundwater exceedances, the analytical data are consistent with or lower than historical results. The data, specifically DO and ORP, show that groundwater conditions are favorable for reductive dechlorination in some of the areas (e.g., MW-18, MW-23, and TR3-PW-01) with elevated VOC contamination. The presence of TCE breakdown products across the well network also supports this assessment.

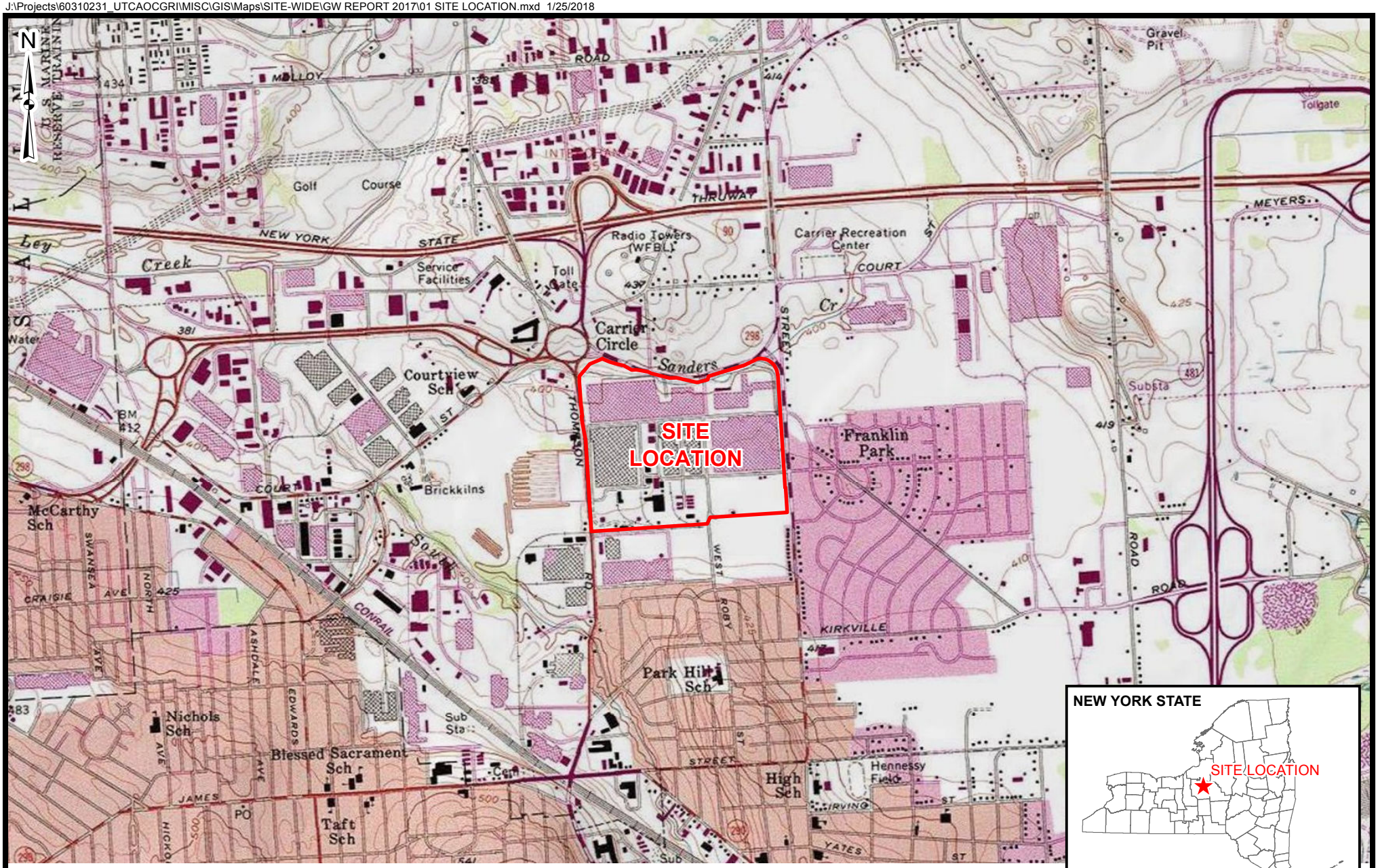
The decrease of concentrations in wells directly downgradient of the sheet pile wall (for TCE in MW-58 decreased by an order of magnitude and decreased to below the criteria at MW-66) along with the groundwater depression directly upgradient of the wall, shows that the sheet pile wall and horizontal well are effective in containing and capturing known VOC-contaminated groundwater.

Perimeter well MW-21 was slightly above the groundwater criterion for TCE (5.23 µg/L) during this monitoring event. Since 2012 the highest detection of TCE was in June 2015 which was 4.0 µg/L. The well is within approximately 100 ft from Sanders Creek. Given the detected concentration from 2017 is only marginally above the groundwater criterion for TCE, MW-21 will continue to be evaluated as part of the Annual SWGMP.

With the potential exception of well MW-71, the groundwater data demonstrate that contaminants are not migrating off-Site. The DO in this well shows groundwater conditions are favorable for reductive dechlorination and TCE breakdown product (cis-1-2-DCE and VC) are present in MW-71. The area directly off-Site is Thompson Road and beyond that is Carrier-owned property. Monitoring at MW-71 will continue as part of the Annual SWGMP.

The next Annual SWGMP event is tentatively scheduled for September 2018.

J:\Projects\60310231_UTCAOCGRI\MISC\GIS\Maps\SITE-WIDE\GW REPORT 2017\01 SITE LOCATION.mxd 1/25/2018



SOURCE: 1:24,000-scale USGS Topographic Map, Syracuse East, 1978

AECOM

SITE-WIDE GROUNDWATER MONITORING
UTC/CARRIER THOMPSON ROAD SITE
SITE LOCATION

FIGURE 1

N

SANDERS CREEK

CARRIER PKWY

SWTP

FIRST ST

THOMPSON RD

KINNE ST

VERIZON SERVICE RD

MW-05R MW-80 MW-17 MW-21 MW-65 MW-42 MW-55 MW-54D MW-79 MW-53 MW-59 MW-18 MW-11 MW-60 MW-52 MW-51 MW-48 MW-14D MW-14 MW-68 MW-67 MW-66 MW-58 MW-56 MW-43 MW-57 MW-50 MW-62 MW-61 MW-47 MW-46 MW-54 MW-45 MW-44 MW-70 MW-49 MW-10 MW-40D MW-38 MW-06 MW-73 MW-37 MW-19 MW-36 MW-39 MW-23 MW-24 MW-35D MW-31 MW-33 MW-34 MW-32 MW-30 MW-26 MW-28 MW-29 MW-25 MW-27 MW-71 MW-03S MW-03D MW-13D2 MW-22D MW-69 MW-72 MW-09 MW-74 MW-78 MW-81 MW-82 MW-83 MW-77 MW-75 MW-84 MW-08 MW-76 DP-MW-01 DP-MW-02 DP-MW-04 DP-MW-05 DP-MW-03 MW-16D

TR-1 TR-2 TR-3 TR-4 TR-5 TR-6 TR-7 TR-7A TR-6A TR-8 TR-10 TR-10A TR-11 TR-12 TR-13 TR-14 TR-18 TR-18S TR-19 TR-20 TR-21 TR-21A TR-23

TR3-MW-01 TR3-MW-02 TR3-PW-02 TR3-GB-03 TR3-PW-01

PLR061 PLR060 PLR056 PLR057 PLR058 PLR002 PLR001

B00107 B00109 B00108 B00102 B00101 B00103 B00104 B00110 B00105 B00106 B00116 B00115 B00114 B00113 B00111 B00112

AR-SB-04 AR-SB-02 AR-MW-01 AR-MW-02 AR-MW-03 AR-MW-04 AR-MW-06 AR-MW-05

FDPZ02 FDPZ04 FDPZ01 FDPZ03

DCDPZ04 DCDPZ02 DCDPZ01 DCDPZ03

SSIPZ04 SSIPZ03 SSIPZ02 SSIPZ01 SSIPZ05

A&R

FORMER DEBRIS PILE AREA

Legend

- Monitoring Well
- Piezometer
- Pump Well
- Building

300 0 300 Feet

SITE-WIDE GROUNDWATER MONITORING
UTC/CARRIER THOMPSON ROAD SITE
SITE-WIDE GROUNDWATER NETWORK

AECOM

FIGURE 2

J:\Projects\60310231_UTCAOCGRIMISC\GIS\Maps\SITE-WIDE\GW REPORT 2017\02 SITE-WIDE GW NETWORK.mxd 1/25/2018

N

SANDERS CREEK

CARRIER PKWY

THOMPSON RD

KINNE ST

MW-05R, 393.88
MW-17, 388.73
MW-21, 393.48
MW-42, 390.60
MW-66, 390.54
TR3-MW-02, 393.75
MW-58, 393.28
MW-57, 394.84
MW-43, 394.61
TR3-PW-01, 394.66
AR-SB-04, NM
AR-SB-02, 392.09
MW-68, 392.17
MW-79, 393.45
MW-14, 393.44
MW-18, 393.44
TR3-PW-02, 394.10
AR-MW-03, 400.68
AR-MW-01, 400.79
AR-MW-02, 400.67
MW-50, 394.16
MW-47, 396.28
MW-48, 396.68
MW-49, 396.88
MW-46, 397.91, 0.01
MW-70, 395.33
MW-45, 397.54
SEE FIGURE 4
MW-44, 398.41
MW-20, NM
AR-MW-04, 397.95
AR-MW-06, 396.62
AR-MW-05, 397.38
PLR001, 399.85, 0.27
MW-82, 396.81
MW-78, 395.96
MW-10, 394.76
MW-73, 395.49
MW-38, 396.80
MW-06, 395.54
MW-37, 396.89
MW-36, 397.00
MW-81, 399.78
MW-83, 399.63
MW-31, 397.46, 0.01
MW-19, 396.43
MW-23, 395.04
MW-24, 396.52
MW-77, 396.71
MW-30, 398.15
DCDPZ02, 397.62
MW-33, 397.35, Sheen
DCDPZ04, 398.52, 0.22
MW-34, 398.10
DCDPZ01, 400.52, 0.62
DCDPZ03, 397.90
MW-26, 402.49
MW-32, 398.41
SSIPZ04, 398.49, 3.02
SSIPZ03, 398.15
MW-28, 399.65
MW-29, 401.96
SSIPZ02, 399.96
SSIPZ01, 398.95
MW-25, 400.02, 2.90
MW-27, 398.54
SSIPZ05, NM
MW-03S, 397.71
MW-75, 398.66
MW-84, 396.98
MW-08, 398.90
MW-76, 399.95
MW-69, 399.14
MW-71, 395.69
MW-74, 399.12
MW-72, 399.85
MW-09, 400.63
DP-MW-04, 406.48

Legend

- Monitoring Well
- Groundwater Flow Direction
- Groundwater Elevation Contour
- Sheet Pile Wall

Horizontal Well:

- Slotted Pipe
- Solid Pipe

MW-46, 397.91, 0.01
Location ID | Groundwater Elevation (ft AMSL) | LNAPL Thickness (ft)

NOTES:
1. Elevation shown in feet above mean sea level (ft amsl); NAVD 88 Datum
2. NM = Not Measured
3. Groundwater elevations are corrected to account for LNAPL thickness. These elevations were considered, but not used to generate potentiometric contours.
4. Water elevations in wells MW-06 and MW-23 are inconsistent with other wells in their vicinity. Water elevations from these wells were considered, but not used to generate potentiometric contours.

SOURCE: NYS Digital Ortho-imagery Program (NYSDOP), Onondaga County, 2015

250 0 250 Feet

SITE-WIDE GROUNDWATER MONITORING UTC/CARRIER THOMPSON ROAD SITE SHALLOW GROUNDWATER ELEVATIONS (NOVEMBER 7 & 8, 2017)

AECOM

FIGURE 3

J:\Projects\60310231_UTCAOCGRI\MISC\GIS\Maps\SITE-WIDE\GW REPORT 2017\03 SHALLOW GROUNDWATER ELEVATIONS (NOV 2017).mxd 3/20/2018

N

391
392
393
394
395
396
397
398
399

TR3-MW-02, 393.75
MW-79, 393.45
SANDERS CREEK
MW-66, 390.54
MW-14, 393.44
MW-68, 392.17
MW-58, 393.28
MW-18, 393.44
MW-57, 394.84
TR3-PW-01, 394.66
TR3-PW-02, 394.10
MW-50, 394.16
MW-43, 394.61
MW-47, 396.28
MW-48, 396.68
MW-46, 397.91, 0.01
MW-45, 397.54

Legend

- Monitoring Well
- Groundwater Flow Direction
- Groundwater Elevation Contour
- Sheet Pile Wall

Horizontal Well:

- Slotted Pipe
- Solid Pipe

MW-46, 397.91, 0.01
Location ID | Groundwater Elevation (ft AMSL) | LNAPL Thickness (ft)

NOTES: 1. Elevation shown in feet above mean sea level (ft amsl); NAVD 88 Datum
2. NM = Not Measured
3. Groundwater elevations are corrected to account for LNAPL thickness. These elevations were considered, but not used to generate potentiometric contours.
4. Horizontal Well System Pumps Approximately 3 gallons per minute from the Upper Water-Bearing Zone

SOURCE: NYS Digital Ortho-imagery Program (NYSDOP), Onondaga County, 2015

40 0 40 Feet

SITE-WIDE GROUNDWATER MONITORING UTC/CARRIER THOMPSON ROAD SITE SHALLOW GROUNDWATER ELEVATIONS (NOVEMBER 7 & 8, 2017) TR 3 NORTH WALL AREA

AECOM

FIGURE 4

J:\Projects\60310231_UTCAOCGRI\MISC\GIS\Maps\SITE-WIDE\GW REPORT 2017\04 SHALLOW GROUNDWATER ELEVATIONS (NOV 2017) (INSET).mxd 3/19/2018

N

SANDERS CREEK

CARRIER PKWY

THOMPSON RD

KINNE ST

MW-14D, 401.29

MW-41D, 400.84

MW-40D, 396.83

MW-35D, 396.92

MW-03D, 398.18

MW-13D2, 397.12

MW-22D, NM

MW-16D, 401.28

397

396

398

400

401

Legend

- Monitoring Well
- Groundwater Flow Direction
- Actual Groundwater Elevation Contour
- Estimated Groundwater Elevation Contour

MW-16D, 401.28
Location ID
Groundwater Elevation (ft AMSL)

NOTES: 1. Elevation shown in feet above mean sea level (ft amsl); NAVD 88 Datum
2. NM = Not Measured
3. MW-13D2 Groundwater Elevation was not used in the creation of the Groundwater Contours

SOURCE: NYS Digital Ortho-imagery Program (NYSDOP), Onondaga County, 2015

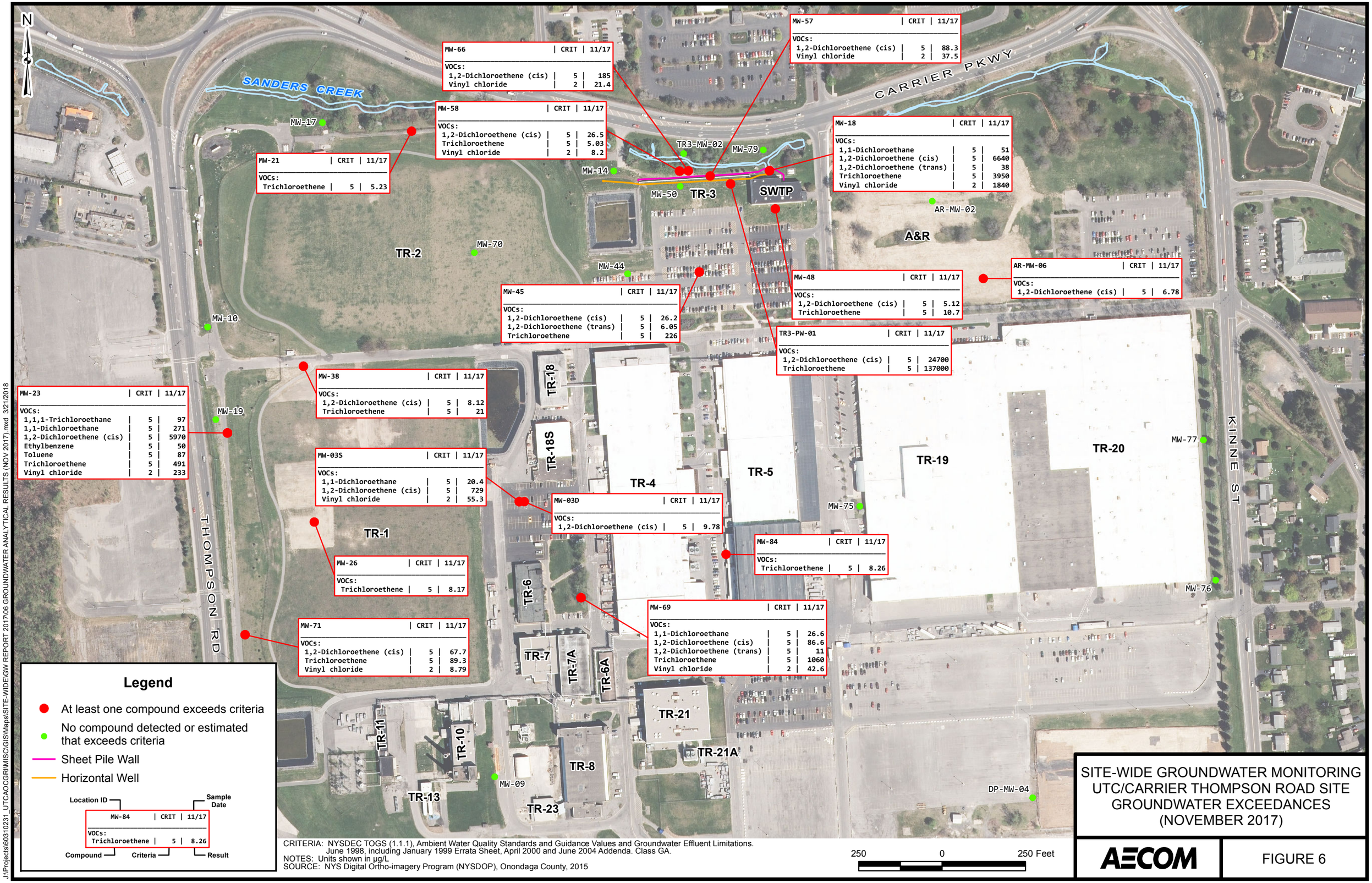
250 0 250 Feet

SITE-WIDE GROUNDWATER MONITORING UTC/CARRIER THOMPSON ROAD SITE DEEP GROUNDWATER ELEVATIONS (NOVEMBER 7 & 8, 2017)

AECOM

FIGURE 5

J:\Projects\60310231_UTCAOCGRI\MISC\GIS\Maps\SITE-WIDE\GW REPORT 2017\05 DEEP GROUNDWATER ELEVATIONS (NOV 2017).mxd 1/25/2018



CRITERIA: NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.
NOTES: Units shown in µg/L
SOURCE: NYS Digital Ortho-imagery Program (NYSDOP), Onondaga County, 2015

SITE-WIDE GROUNDWATER MONITORING UTC/CARRIER THOMPSON ROAD SITE GROUNDWATER EXCEEDANCES (NOVEMBER 2017)

AECOM

FIGURE 6

J:\Projects\60310231_UTCAOCGRI\MISC\GIS\Maps\SITE-WIDE\GW REPORT 2017\06 GROUNDWATER ANALYTICAL RESULTS (NOV 2017).mxd 3/21/2018

TABLE 1
UTC/CARRIER THOMPSON ROAD SITE
SITE-WIDE GROUNDWATER MONITORING PROGRAM
PROPOSED WELLS

Area	Monitoring Well/ Piezometer	Water-bearing Zone (Upper/ Lower)	Well Diameter (inches)	Proposed Wells For:		
				Water Levels	VOC Analysis	PCB Analysis
Perimeter	DP-MW-04	Upper	2	x	x	
Perimeter	MW-05R	Upper	2	x		
Perimeter	MW-09	Upper	2	x	x	
Perimeter	MW-10	Upper	2	x	x	
Perimeter	MW-14	Upper	2	x	x	
Perimeter	MW-14D	Lower	2	x		
Perimeter	MW-16D	Lower	2	x		
Perimeter	MW-17	Upper	2	x	x	
Perimeter	MW-19	Upper	2	x	x	x
Perimeter	MW-21	Upper	2	x	x	
Perimeter	MW-42	Upper	2	x		
Perimeter	MW-71	Upper	2	x	x	
Perimeter	MW-73	Upper	2	x		
Perimeter	MW-76	Upper	2	x	x	
Perimeter	MW-77	Upper	2	x	x	
Perimeter	MW-79	Upper	2	x	x	
Perimeter	TR3-MW-02	Upper	2	x	x	
Area Subtotal				17	12	1
A&R	AR-MW-01	Upper	2	x		
A&R	AR-MW-02	Upper	2	x	x	
A&R	AR-MW-03	Upper	2	x		
A&R	AR-MW-04	Upper	2	x		
A&R	AR-MW-05	Upper	2	x		
A&R	AR-MW-06	Upper	2	x	x	
A&R	AR-SB-02	Upper	1	x		
A&R	AR-SB-04	Upper	1	x		
Area Subtotal				8	2	0
TR-1	DCDPZ01	Upper	1	x		
TR-1	DCDPZ02	Upper	1	x		
TR-1	DCDPZ03	Upper	1	x		
TR-1	DCDPZ04	Upper	1	x		
TR-1	MW-06	Upper	2	x		
TR-1	MW-23	Upper	2	x	x	x
TR-1	MW-24	Upper	2	x		
TR-1	MW-25	Upper	4	x		
TR-1	MW-26	Upper	2	x	x	x
TR-1	MW-27	Upper	2	x		
TR-1	MW-28	Upper	2	x		
TR-1	MW-29	Upper	4	x		
TR-1	MW-30	Upper	4	x		
TR-1	MW-31	Upper	2	x		
TR-1	MW-32	Upper	2	x		
TR-1	MW-33	Upper	2	x		
TR-1	MW-34	Upper	2	x		
TR-1	MW-35D	Lower	2	x		
TR-1	MW-36	Upper	4	x		
TR-1	MW-37	Upper	2	x		
TR-1	MW-38	Upper	2	x	x	x
TR-1	MW-40D	Lower	2	x		
TR-1	SSIPZ01	Upper	1	x		
TR-1	SSIPZ02	Upper	1	x		
TR-1	SSIPZ03	Upper	1	x		
TR-1	SSIPZ04	Upper	1	x		
TR-1	SSIPZ05	Upper	1	x		
Area Subtotal				27	3	3

TABLE 1
UTC/CARRIER THOMPSON ROAD SITE
SITE-WIDE GROUNDWATER MONITORING PROGRAM
PROPOSED WELLS

Area	Monitoring Well/ Piezometer	Water-bearing Zone (Upper/ Lower)	Well Diameter (inches)	Proposed Wells For:		
				Water Levels	VOC Analysis	PCB Analysis
TR-3 and Parking Lot R	B001-03	Upper	1	x		
TR-3 and Parking Lot R	B001-04	Upper	1	x		
TR-3 and Parking Lot R	B001-05	Upper	1	x		
TR-3 and Parking Lot R	B001-06	Upper	1	x		
TR-3 and Parking Lot R	B001-07	Upper	1	x		
TR-3 and Parking Lot R	B001-08	Upper	1	x		
TR-3 and Parking Lot R	B001-09	Upper	1	x		
TR-3 and Parking Lot R	B001-10	Upper	1	x		
TR-3 and Parking Lot R	MW-18	Upper	2	x	x	
TR-3 and Parking Lot R	MW-20	Upper	2	x		
TR-3 and Parking Lot R	MW-41D	Lower	2	x		
TR-3 and Parking Lot R	MW-43	Upper	2	x		
TR-3 and Parking Lot R	MW-44	Upper	2	x	x	x
TR-3 and Parking Lot R	MW-45	Upper	2	x	x	
TR-3 and Parking Lot R	MW-46	Upper	2	x		
TR-3 and Parking Lot R	MW-47	Upper	2	x		
TR-3 and Parking Lot R	MW-48	Upper	2	x	x	
TR-3 and Parking Lot R	MW-50	Upper	2	x	x	
TR-3 and Parking Lot R	MW-57	Upper	2	x	x	
TR-3 and Parking Lot R	MW-58	Upper	2	x	x	
TR-3 and Parking Lot R	MW-62	Upper	2	x		
TR-3 and Parking Lot R	MW-66	Upper	2	x	x	
TR-3 and Parking Lot R	MW-68	Upper	2	x		
TR-3 and Parking Lot R	PLR001	Upper	1	x		
TR-3 and Parking Lot R	TR3-PW-01	Upper	4	x	x	
TR-3 and Parking Lot R	TR3-PW-02	Upper	4	x		
Area Subtotal				26	9	1
SWMU 1-4	MW-03D	Lower	2	x	x	
SWMU 1-4	MW-03S	Upper	2	x	x	
SWMU 1-4	MW-13D2	Lower	2	x		
SWMU 1-4	MW-22D	Lower	2	x		
Area Subtotal				4	2	0
Miscelllaneous Interior	MW-08	Upper	2	x		
Miscelllaneous Interior	MW-49	Upper	2	x		
Miscelllaneous Interior	MW-69	Upper	2	x	x	
Miscelllaneous Interior	MW-70	Upper	2	x	x	
Miscelllaneous Interior	MW-72	Upper	2	x		
Miscelllaneous Interior	MW-74	Upper	2	x		
Miscelllaneous Interior	MW-75	Upper	2	x	x	
Miscelllaneous Interior	MW-78	Upper	2	x		
Miscelllaneous Interior	MW-81	Upper	2	x		
Miscelllaneous Interior	MW-82	Upper	2	x		
Miscelllaneous Interior	MW-83	Upper	2	x		
Miscelllaneous Interior	MW-84	Upper	2	x	x	
Area Subtotal				12	4	0
Total				94	32	5

Notes:
A&R - Administration and Research
PCB - Polychlorinated biphenyl
SWMU - Solid Waste Management Unit
VOC - Volatile Organic Compound

TABLE 2
SITE-WIDE GROUNDWATER MONITORING PROGRAM
WATER LEVELS AND WELL INSPECTION SUMMARY
CARRIER CORPORATION THOMPSON ROAD FACILITY
NOVEMBER 2017

Monitoring Well/ Piezometer	Water-bearing Zone (Upper/ Lower)	Well Diameter (inches ID)	Northing	Easting	Measuring Point Elevation feet	Depth to Free Phase Product feet	Depth to Water (BTOR) feet	Free Phase Product Thickness feet	Groundwater Elevation feet	Well Inspection Summary				
										Lock	Surface Seal	Protective Casing OR Flushmount Roadbox (Lid/collar) Condition	Riser	Comments
Perimeter Area														
DP-MW-04	Upper	2	1122974.74	954593.56	408.38	-	1.90	-	406.48	No lock	OK	OK	OK	
MW-05R	Upper	2	1125014.53	952292.73	396.81	-	2.93	-	393.88	Lock OK (#2537 key)	OK	OK	OK	
MW-09	Upper	2	1123038.00	952979.38	406.20	-	5.57	-	400.63	No lock	OK	OK	OK	
MW-10	Upper	2	1124386.24	952118.57	402.79	-	8.03	-	394.76	No lock	OK	OK	OK	
MW-11	Upper	2	1124861.02	953926.15	402.23	NM	NM	NM	NM	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	Under gravel
MW-14	Upper	2	1124854.60	953336.73	403.60	-	10.16	-	393.44	Lock OK (#2537 key)	Pad raised above ground	OK	OK	
MW-14D	Lower	2	1124854.86	953333.43	403.68	-	2.39	-	401.29	Lock OK (#2537 key)	Pad raised above ground	OK	OK	
MW-16D	Lower	2	1122764.69	953409.36	406.13	-	4.85	-	401.28	No lock	OK	OK	OK	
MW-17	Upper	2	1124999.53	952462.72	397.02	-	8.29	-	388.73	No lock	OK	1 Stripped Bolt	OK	
MW-19	Upper	2	1124108.76	952143.57	404.72	-	8.29	-	396.43	No lock	OK	Missing 1 bolt	OK	
MW-21	Upper	2	1124973.70	952730.22	402.52	-	9.04	-	393.48	No lock	OK	OK	OK	
MW-42	Upper	2	1124967.30	953212.96	396.57	-	5.97	-	390.60	Lock Corroded (#2537 key)	OK	OK	OK	
MW-59	Upper	2	1124872.74	953831.00	394.58	NM	NM	NM	NM	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	Under gravel
MW-65	Upper	2	1124983.12	952943.49	401.77	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only
MW-71	Upper	2	1123463.97	952230.85	404.95	-	9.26	-	395.69	No lock	OK	OK	OK	
MW-73	Upper	2	1124257.22	951987.57	403.40	-	7.91	-	395.49	No lock	OK	OK	OK	
MW-76	Upper	2	1123627.57	955141.81	406.07	-	6.12	-	399.95	No lock	OK	OK	OK	
MW-77	Upper	2	1124047.75	955105.46	404.81	-	8.10	-	396.71	No lock	OK	OK	OK	
MW-79	Upper	2	1124917.99	953785.24	395.69	-	2.24	-	393.45	No lock	OK	OK	OK	
MW-80	Upper	2	1124983.12	952943.49	392.31	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only
TR3-MW-01	Upper	2	1124885.97	953692.42	392.86	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only
TR3-MW-02	Upper	2	1124906.18	953546.57	395.46	-	1.71	-	393.75	No lock	OK	OK	OK	
A&R Area														
AR-MW-01	Upper	2	1124770.59	954418.68	403.76	-	2.97	-	400.79	No lock	OK	OK	OK	
AR-MW-02	Upper	2	1124764.40	954292.16	403.40	-	2.73	-	400.67	No lock	OK	OK	OK	
AR-MW-03	Upper	2	1124754.76	954149.74	403.41	-	2.73	-	400.68	No lock	OK	OK	OK	
AR-MW-04	Upper	2	1124515.46	954180.87	404.50	-	6.55	-	397.95	No lock	OK	OK	OK	
AR-MW-05	Upper	2	1124466.37	954310.19	404.87	-	7.49	-	397.38	No lock	OK	OK	OK	
AR-MW-06	Upper	2	1124531.93	954445.06	404.63	-	8.01	-	396.62	No lock	OK	OK	OK	
AR-SB-02	Upper	1	1124990.14	954142.61	396.19	-	4.10	-	392.09	No lock	NA	NA	OK	Reassembled riser, it was unthreaded and lying nearby
AR-SB-04	Upper	1	1125037.71	954296.60	395.86	NM	NM	NM	NM	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	Could not locate
TR-1 Area														
DCDPZ01	Upper	1	1123895.47	952479.75	407.28	6.60	7.22	0.62	400.52	No lock	OK	OK	OK	
DCDPZ02	Upper	1	1123938.80	952468.92	407.00	-	9.38	-	397.62	No lock	OK	OK	OK	
DCDPZ03	Upper	1	1123882.13	952353.09	407.23	-	9.33	-	397.90	No lock	OK	OK	OK	
DCDPZ04	Upper	1	1123917.13	952351.42	407.36	8.78	9.00	0.22	398.52	No lock	OK	OK	OK	
FDPZ01	Upper	1	1124189.61	952343.92	407.23	NM	NM	NM	NM	No lock	OK	OK	OK	
FDPZ02	Upper	1	1124233.78	952328.09	408.45	NM	NM	NM	NM	No lock	OK	OK	OK	
FDPZ03	Upper	1	1124197.11	952463.92	406.78	NM	NM	NM	NM	No lock	OK	OK	OK	
FDPZ04	Upper	1	1124228.78	952446.42	407.40	NM	NM	NM	NM	No lock	OK	OK	OK	
MW-06	Upper	2	1124275.42	952570.22	406.21	-	10.67	-	395.54	No lock	OK	No lid	No J-plug	
MW-23	Upper	2	1124068.77	952177.73	403.54	-	8.50	-	395.04	No lock	OK	OK	OK	
MW-24	Upper	2	1124038.77	952184.40	404.58	-	8.06	-	396.52	No lock	OK	OK	OK	
MW-25	Upper	4	1123764.64	952464.75	406.25	5.45	8.35	2.90	400.02	No lock	OK	OK	OK	
MW-26	Upper	2	1123802.12	952438.56	406.65	-	4.16	-	402.49	No lock	OK	OK	OK	
MW-27	Upper	2	1123753.79	952424.39	406.19	-	7.65	-	398.54	No lock	OK	OK	OK	
MW-28	Upper	2	1123769.62	952481.06	406.15	-	6.50	-	399.65	No lock	OK	OK	OK	
MW-29	Upper	4	1123774.62	952380.23	406.19	-	4.23	-	401.96	No lock	OK	OK	OK	
MW-30	Upper	4	1123895.44	952378.56	407.08	-	8.93	-	398.15	No lock	OK	OK	OK	
MW-31	Upper	2	1123932.11	952388.93	406.46	9.00	9.01	0.01	397.46	No lock	OK	OK	OK	
MW-32	Upper	2	1123867.11	952410.22	406.67	-	8.26	-	398.41	No lock	OK	OK	OK	
MW-33	Upper	2	1123903.80	952446.42	406.71	9.36	9.36	SHEEN	397.35	No lock	OK	OK	OK	
MW-34	Upper	2	1123899.61	952363.56	406.73	-	8.63	-	398.10	No lock	OK	OK	OK	
MW-35D	Lower	2	1123932.11	952377.73	407.33	-	10.41	-	396.92	No lock	OK	OK	OK	
MW-36	Upper	4	1124197.92	952411.89	407.66	-	10.66	-	397.00	No lock	OK	OK	OK	
MW-37	Upper	2	1124204.59	952396.06	406.74	-	9.85	-	396.89	No lock	OK	OK	OK	
MW-38	Upper	2	1124268.75	952406.06	404.45	-	7.65	-	396.80	No lock	OK	OK	OK	
MW-39	Upper	2	1124196.26	952447.72	406.87	NM	NM	NM	NM	No lock	OK	OK	OK	
MW-40D	Lower	2	1124267.92	952397.72	404.36	-	7.53	-	396.83	No lock	OK	OK	OK	
SSIPZ01	Upper	1	1123762.14	952385.59	406.45	-	7.50	-	398.95	No lock	OK	OK	OK	
SSIPZ02	Upper	1	1123752.14	952490.59	406.41	-	6.45	-	399.96	No lock	OK	OK	OK	
SSIPZ03	Upper	1	1123778.81	952359.76	406.83	-	8.68	-	398.15	No lock	OK	OK	OK	
SSIPZ04	Upper	1	1123807.97	952478.09	406.48	7.18	10.20	3.02	398.49	No lock	OK	OK	OK	
SSIPZ05	Upper	1	1123733.81	952464.75	405.98	NM	NM	NM	NM	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	Could not locate

Specific Gravity of Free Phase Product = 0.73 based on historical reports
Groundwater Elevation = Measuring Point Elevation - Depth to Water (BTOR) + (0.73 x Free Phase Product Thickness)

TABLE 2
SITE-WIDE GROUNDWATER MONITORING PROGRAM
WATER LEVELS AND WELL INSPECTION SUMMARY
CARRIER CORPORATION THOMPSON ROAD FACILITY
NOVEMBER 2017

Monitoring Well/ Piezometer	Water-bearing Zone (Upper/ Lower)	Well Diameter (inches ID)	Northing	Easting	Measuring Point Elevation feet	Depth to Free Phase Product feet	Depth to Water (BTOR) feet	Free Phase Product Thickness feet	Groundwater Elevation feet	Well Inspection Summary				
										Lock	Surface Seal	Protective Casing OR Flushmount Roadbox (Lid/collar) Condition	Riser	Comments
TR-3 and Parking Lot R Area														
B001-01	Upper	1	1124697.08	953785.55	NA	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only, dug out to expose, ~ 6" of soil over roadbox.
B001-02	Upper	1	1124697.08	953817.22	NA	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only, dug out to expose, ~ 6" of soil over roadbox.
B001-03	Upper	1	1124607.92	953833.88	NA	-	6.91	-	NA	No lock	OK	OK	OK	
B001-04	Upper	1	1124570.42	953692.22	NA	-	9.51	-	NA	No lock	Concrete separated from collar, lid spins	One bolt missing, other locked in place	OK	
B001-05	Upper	1	1124461.26	953646.39	NA	-	9.49	-	NA	No lock	OK	OK	OK	
B001-06	Upper	1	1124488.76	953823.05	NA	-	5.61	-	NA	No lock	Concrete separated from collar, lid spins	OK	OK	
B001-07	Upper	1	1124738.74	953978.05	NA	-	4.79	-	NA	No lock	Partially paved over	Both ears broken	OK	
B001-08	Upper	1	1124626.25	953982.21	NA	NM	NM	NM	NM	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	Paved over
B001-09	Upper	1	1124650.41	953956.38	NA	-	5.02	-	NA	No lock	OK	OK	OK	
B001-10	Upper	1	1124567.92	953962.21	NA	-	5.68	-	NA	No lock	Concrete deteriorated	OK	OK	Needs new box and concrete
MW-18	Upper	2	1124855.40	953803.88	397.71	-	4.27	-	393.44	No lock	OK	Bolts stripped	OK	
MW-20	Upper	2	1124515.42	953828.88	404.10	NM	NM	NM	NM	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	Paved over
MW-41D	Lower	2	1124492.07	953825.19	404.23	-	3.39	-	400.84	No lock	OK	2 broken ears	OK	
MW-43	Upper	2	1124808.28	953664.88	405.11	-	10.50	-	394.61	No lock	OK	OK	OK	
MW-44	Upper	2	1124546.23	953378.53	404.45	-	6.04	-	398.41	No lock	OK	OK	OK	
MW-45	Upper	2	1124551.23	953593.53	404.13	-	6.59	-	397.54	No lock	OK	Broken ears. No lid	Broken J-plug	
MW-46	Upper	2	1124678.75	953574.72	404.13	6.22	6.23	0.01	397.91	No lock	OK	Bolts stripped	OK	
MW-47	Upper	2	1124759.44	953732.29	405.01	-	8.73	-	396.28	No lock	OK	1-Bolt missing	OK	
MW-48	Upper	2	1124741.00	953821.67	405.33	-	8.65	-	396.68	No lock	OK	OK	OK	
MW-50	Upper	2	1124808.71	953536.03	405.27	-	11.11	-	394.16	No lock	OK	OK	OK	
MW-51	Upper	4	1124773.74	953768.05	403.60	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only
MW-52	Upper	4	1124791.04	953758.91	400.01	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only
MW-53	Upper	2	1124845.40	953738.05	398.07	NM	NM	NM	NM	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	Could not locate
MW-54	Upper	4	1124775.41	953742.22	404.92	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only
MW-54D	Lower	2	1124844.92	953721.67	398.52	NM	NM	NM	NM	No lock-downhole J-plug	Cracked	Loose	OK	Need to reset roadbox
MW-55	Upper	2	1124843.32	953701.89	398.29	NM	NM	NM	NM	No lock	Cracked	Bent over 45 degrees	Riser bent but OK	Roadbox needs replacement
MW-56	Upper	2	1124841.65	953676.73	399.25	NM	NM	NM	NM	No lock	Loose - ground settled around	OK	OK	Need to reset roadbox
MW-57	Upper	2	1124839.31	953625.92	398.36	-	3.52	-	394.84	No lock	Cracked	OK	Riser slightly leaning	Need to reset roadbox
MW-58	Upper	2	1124853.70	953533.98	396.53	-	3.25	-	393.28	No lock	OK	OK	OK	
MW-60	Upper	2	1124836.40	953785.63	398.24	NM	NM	NM	NM	No lock	OK	OK	OK	
MW-61	Upper	2	1124820.56	953720.04	404.81	NM	NM	NM	NM	No lock	OK	OK	OK	
MW-62	Upper	2	1124762.97	953669.35	405.28	-	10.03	-	395.25	No lock	OK	Needs new bolts	OK	
MW-66	Upper	2	1124854.94	953560.48	396.37	-	5.83	-	390.54	No lock	OK	Has slid downhill	Riser pushed against casing	Box slid downhill, riser tight against side of collar
MW-67	Upper	2	1124829.20	953471.96	398.58	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only
MW-68	Upper	2	1124855.04	953476.28	397.40	-	5.35	-	392.05	No lock	OK	OK	OK	
PLR001	Upper	1	1124467.93	953858.05	405.10	5.18	5.45	0.27	399.85	No lock	OK	OK	OK	
PLR002	Upper	1	1124512.07	953914.35	NA	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only
PLR056	Upper	1	1124751.00	953801.06	405.39	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only
PLR057	Upper	1	1124748.99	953772.23	405.36	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only
PLR058	Upper	1	1124757.26	953743.80	405.12	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only
PLR060	Upper	1	1124803.00	953740.94	405.26	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only
PLR061	Upper	1	1124831.52	953738.60	404.77	NM	NM	NM	NM	No lock	OK	OK	UNKNOWN	External inspection only, Sunken road box
TR3-GB-03	Lower	2	1124467.93	953858.05	398.49	NM	NM	NM	NM	No lock-downhole J-plug	OK	Lid missing, filled with gravel	OK	Needs new roadbox
TR3-PW-01	Upper	4	1124815.67	953687.16	405.03	-	10.37	-	394.66	No lock	OK	OK	OK	
TR3-PW-02	Upper	4	1124805.52	953444.97	405.59	-	11.49	-	394.10	No lock	OK	OK	OK	
SWMU 1-4 Area														
MW-03D	Lower	2	1123862.95	953068.54	405.64	-	7.46	-	398.18	No lock	OK	OK	OK	
MW-03S	Upper	2	1123862.95	953053.54	404.54	-	6.83	-	397.71	No lock	OK	OK	OK	
MW-13D2	Lower	2	1123847.11	953071.04	402.71	-	5.59	-	397.12	No lock	OK	OK	OK	
MW-22D	Lower	2	1123729.62	952956.04	406.55	NM	NM	NM	NM	No lock	Cracked	Bent over	Cracked at grade	Needs new riser and protective casing (hit by plow)
Remaining Wells														
B001-11	Upper	1	1123957.96	953583.89	NA	NM	NM	NM	NM	No lock	OK	OK	OK	
B001-12	Upper	1	1123892.97	953589.72	NA	NM	NM	NM	NM	No lock	OK	OK	OK	
B001-13	Upper	1	1124026.29	953560.56	NA	NM	NM	NM	NM	No lock	Loose	OK	OK	Loose casing
B001-14	Upper	1	1124113.78	953574.72	NA	NM	NM	NM	NM	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	Could not locate-paved or sodded over
B001-15	Upper	1	1124161.28	953574.72	NA	NM	NM	NM	NM	No lock	OK	OK	OK	
B001-16	Upper	1	1124235.44	953562.22	NA	NM	NM	NM	NM	No lock	OK	OK	OK	
DP-MW-01	Upper	2	1123220.64	954880.49	405.82	NM	NM	NM	NM	No lock	OK	OK	OK	
DP-MW-02	Upper	2	1123133.30	955153.64	407.22	NM	NM	NM	NM	No lock	OK	OK	OK	
DP-MW-03	Upper	2	1122921.52	954901.99	409.76	NM	NM	NM	NM	No lock	OK	OK	OK	
DP-MW-05	Upper	2	1122995.89	954882.97	409.93	NM	NM	NM	NM	No lock	OK	OK	OK	
MW-08	Upper	2	1123604.65	953918.88	404.00	-	5.10	-	398.90	No lock	OK	OK	OK	
MW-49	Upper	2	1124635.39	953204.37	407.66	-	10.78	-	396.88	No lock	OK	OK	OK	
MW-69	Upper	2	1123575.09	953238.60	403.70	-	4.56	-	399.14	No lock	OK	OK	OK	
MW-70	Upper	2	1124609.37	952918.96	406.24	-	10.90	-	395.34	No lock	OK	OK	OK	
MW-72	Upper	2	1123133.97	952768.81	404.10	-	4.25	-	399.85	No lock	OK	OK	OK	
MW-74	Upper	2	1123318.97	953446.58	405.64	-	6.52	-	399.12	No lock	OK	OK	OK	
MW-75	Upper	2	1123849.47	954074.99	405.29	-	6.63	-	398.66	No lock	OK	OK	OK	
MW-78	Upper	2	1124424.80	954858.90	402.58	-	6.62	-	395.96	No lock	OK	OK	OK	
MW-81	Upper	2	1124341.64	954033.81	406.10	-	6.32	-	399.78	No lock	OK	OK	OK	
MW-82	Upper	2	1124398.72	954533.30	404.19	-	7.38	-	396.81	No lock	OK	OK	OK	
MW-83	Upper	2	1124336.76	954304.18	404.92	-	5.29	-	399.63	No lock	OK	OK	OK	
MW-84	Upper	2	1123704.67	953673.48	403.57	-	6.59	-	396.98	No lock	OK	OK	OK	

Specific Gravity of Free Phase Product = 0.73 based on historical reports
Groundwater Elevation = Measuring Point Elevation - Depth to Water (BTOR) + (0.73 x Free Phase Product Thickness)

TABLE 3
UTC/CARRIER THOMPSON ROAD SITE
ANNUAL SITE-WIDE GROUNDWATER MONITORING
GROUNDWATER ANALYTICAL RESULTS-NOVEMBER 2017

Location ID			AR-MW-02	AR-MW-06	DP-MW-04	MW-03D	MW-03S
Sample ID			AR-MW-02	AR-MW-06	DP-MW-04	MW-03D	MW-03S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/13/17	11/13/17	11/14/17	11/09/17	11/09/17
Parameter	**Units**	*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
1,1-Dichloroethane	UG/L	5	1.00 U	1.00 U	1.00 U	0.34 J	20.4
1,2-Dichloroethene (cis)	UG/L	5	1.00 U	6.78	1.00 U	9.78	729
1,2-Dichloroethene (trans)	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
1,4-Dioxane	UG/L	-	20.0 U	20.0 U	20.0 U	20.0 U	200 U
Acetone	UG/L	50	1.88 J	1.65 J	10.0 U	10.0 U	100 U
Chloroform	UG/L	7	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Ethylbenzene	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	2.00 U	2.00 U	2.00 U	2.00 U	20.0 U
Methyl tert-butyl ether	UG/L	10	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Tetrachloroethene	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Toluene	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Trichloroethene	UG/L	5	1.00 U	4.75	1.00 U	1.00 U	10.0 U
Vinyl chloride	UG/L	2	1.00 U	0.50 J	1.00 U	1.00 U	55.3

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

Only Detected Results Reported.

Detection Limits shown are PQL

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[MATRIX] = 'WG' AND ([LOGDATE] BETWEEN #11/9/2017# AND #11/14/2017#)

TABLE 3
UTC/CARRIER THOMPSON ROAD SITE
ANNUAL SITE-WIDE GROUNDWATER MONITORING
GROUNDWATER ANALYTICAL RESULTS-NOVEMBER 2017

Location ID			MW-09	MW-10	MW-14	MW-17	MW-18
Sample ID			MW-09	MW-10	MW-14	MW-17	MW-18
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/10/17	11/09/17	11/13/17	11/10/17	11/13/17
Parameter	**Units**	*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1.05	1.00 U	1.00 U	1.00 U	100 U
1,1-Dichloroethane	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	51.0 J
1,2-Dichloroethene (cis)	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	6,640
1,2-Dichloroethene (trans)	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	38.0 J
1,4-Dioxane	UG/L	-	20.0 U	20.0 U	20.0 U	20.0 U	2,000 U
Acetone	UG/L	50	10.0 UR	10.0 UR	1.43 J	10.0 UR	1,000 U
Chloroform	UG/L	7	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Ethylbenzene	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	2.00 UR	2.00 UR	2.00 U	2.00 UR	200 U
Methyl tert-butyl ether	UG/L	10	1.00 U	0.31 J	1.00 U	0.33 J	100 U
Tetrachloroethene	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Toluene	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Trichloroethene	UG/L	5	2.84	1.00 U	1.00 U	1.00 U	3,950
Vinyl chloride	UG/L	2	1.00 U	1.00 U	1.00 U	1.00 U	1,840

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3
UTC/CARRIER THOMPSON ROAD SITE
ANNUAL SITE-WIDE GROUNDWATER MONITORING
GROUNDWATER ANALYTICAL RESULTS-NOVEMBER 2017

Location ID			MW-19	MW-21	MW-23	MW-23	MW-26
Sample ID			MW-19	MW-21	FD-110917	MW-23	MW-26
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/09/17	11/10/17	11/09/17	11/09/17	11/09/17
Parameter	**Units**	*			Field Duplicate (1-1)		
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1.00 U	1.00 U	79.0 J	97.0 J	1.17
1,1-Dichloroethane	UG/L	5	1.00 U	1.00 U	271	261	0.52 J
1,2-Dichloroethene (cis)	UG/L	5	1.00 U	1.04	5,970	4,020	1.00 U
1,2-Dichloroethene (trans)	UG/L	5	1.00 U	1.00 U	100 U	100 U	1.00 U
1,4-Dioxane	UG/L	-	20.0 U	20.0 U	2,000 U	2,000 U	20.0 U
Acetone	UG/L	50	10.0 UR	10.0 UR	1,000 UR	1,000 UR	10.0 U
Chloroform	UG/L	7	1.00 U	1.00 U	100 U	100 U	1.00 U
Ethylbenzene	UG/L	5	1.00 U	1.00 U	100 U	50.0 J	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	2.00 UR	2.00 UR	200 UR	200 UR	2.00 U
Methyl tert-butyl ether	UG/L	10	1.00 U	1.00 U	100 U	100 U	1.00 U
Tetrachloroethene	UG/L	5	1.00 U	1.00 U	100 U	100 U	1.13
Toluene	UG/L	5	1.00 U	1.00 U	81.0 J	87.0 J	1.00 U
Trichloroethene	UG/L	5	1.25	5.23	491	318	8.17
Vinyl chloride	UG/L	2	1.00 U	1.00 U	233	227	1.00 U

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3
UTC/CARRIER THOMPSON ROAD SITE
ANNUAL SITE-WIDE GROUNDWATER MONITORING
GROUNDWATER ANALYTICAL RESULTS-NOVEMBER 2017

Location ID			MW-38	MW-44	MW-45	MW-48	MW-50
Sample ID			MW-38	MW-44	MW-45	MW-48	MW-50
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/09/17	11/10/17	11/14/17	11/13/17	11/13/17
Parameter	**Units**	*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1.00 U	1.41	5.00 U	1.00 U	1.00 U
1,1-Dichloroethane	UG/L	5	1.00 U	1.00 U	5.00 U	0.96 J	1.00 U
1,2-Dichloroethene (cis)	UG/L	5	8.12	1.00 U	26.2	5.12	1.00 U
1,2-Dichloroethene (trans)	UG/L	5	1.00 U	1.00 U	6.05	0.45 J	1.00 U
1,4-Dioxane	UG/L	-	20.0 U	20.0 U	100 U	20.0 U	20.0 U
Acetone	UG/L	50	10.0 UR	10.0 UR	5.00 U	0.88 J	10.0 U
Chloroform	UG/L	7	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Ethylbenzene	UG/L	5	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	2.00 UR	2.00 UR	10.0 U	2.00 U	2.00 U
Methyl tert-butyl ether	UG/L	10	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Tetrachloroethene	UG/L	5	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Toluene	UG/L	5	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Trichloroethene	UG/L	5	21.0	4.99	226	10.7	1.00 U
Vinyl chloride	UG/L	2	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3
UTC/CARRIER THOMPSON ROAD SITE
ANNUAL SITE-WIDE GROUNDWATER MONITORING
GROUNDWATER ANALYTICAL RESULTS-NOVEMBER 2017

Location ID			MW-57	MW-58	MW-66	MW-69	MW-70
Sample ID			MW-57	MW-58	MW-66	MW-69	MW-70
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/13/17	11/13/17	11/13/17	11/10/17	11/10/17
Parameter	**Units**	*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
1,1-Dichloroethane	UG/L	5	1.00 U	1.00 U	1.00 U	26.6	1.00 U
1,2-Dichloroethene (cis)	UG/L	5	88.3	26.5	185 D	86.6	1.00 U
1,2-Dichloroethene (trans)	UG/L	5	0.45 J	0.44 J	1.65	11.0	1.00 U
1,4-Dioxane	UG/L	-	20.0 U	20.0 U	20.0 U	400 U	16.2 J
Acetone	UG/L	50	10.0 U	10.0 U	10.0 U	200 UR	10.0 UR
Chloroform	UG/L	7	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Ethylbenzene	UG/L	5	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	2.00 U	2.00 U	2.00 U	40.0 UR	2.00 UR
Methyl tert-butyl ether	UG/L	10	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Tetrachloroethene	UG/L	5	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Toluene	UG/L	5	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Trichloroethene	UG/L	5	1.77	5.03	1.00 U	1,060	1.00 U
Vinyl chloride	UG/L	2	37.5	8.20	21.4	42.6	1.00 U

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3
UTC/CARRIER THOMPSON ROAD SITE
ANNUAL SITE-WIDE GROUNDWATER MONITORING
GROUNDWATER ANALYTICAL RESULTS-NOVEMBER 2017

Location ID			MW-71	MW-75	MW-76	MW-77	MW-79
Sample ID			MW-71	MW-75	MW-76	MW-77	MW-79
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/09/17	11/10/17	11/10/17	11/10/17	11/13/17
Parameter	**Units**	*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethane	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	5	67.7	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene (trans)	UG/L	5	4.05	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dioxane	UG/L	-	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Acetone	UG/L	50	1.60 J	10.0 UR	1.97 J	10.0 UR	10.0 U
Chloroform	UG/L	7	1.00 U	0.51 J	1.00 U	1.00 U	1.00 U
Ethylbenzene	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	2.00 U	2.00 UR	2.00 U	2.00 UR	2.00 U
Methyl tert-butyl ether	UG/L	10	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrachloroethene	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	UG/L	5	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichloroethene	UG/L	5	89.3 D	0.96 J	1.00 U	1.00 U	1.00 U
Vinyl chloride	UG/L	2	8.79	1.00 U	1.00 U	1.00 U	1.00 U

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

Only Detected Results Reported.

Detection Limits shown are PQL

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[MATRIX] = 'WG' AND ([LOGDATE] BETWEEN #11/9/2017# AND #11/14/2017#)

TABLE 3
UTC/CARRIER THOMPSON ROAD SITE
ANNUAL SITE-WIDE GROUNDWATER MONITORING
GROUNDWATER ANALYTICAL RESULTS-NOVEMBER 2017

Location ID			MW-84	MW-84	TR3-MW-02	TR3-PW-01	TR3-PW-01
Sample ID			FD-111017	MW-84	TR3-MW-02	FD-111317	TR3-PW-01
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/10/17	11/10/17	11/13/17	11/13/17	11/13/17
Parameter	**Units**	*	Field Duplicate (1-1)			Field Duplicate (1-1)	
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
1,1-Dichloroethane	UG/L	5	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
1,2-Dichloroethene (cis)	UG/L	5	0.57 J	0.78 J	1.00 U	24,700	24,300 D
1,2-Dichloroethene (trans)	UG/L	5	1.11	1.41	1.00 U	2,000 U	2,000 U
1,4-Dioxane	UG/L	-	20.0 U	20.0 U	20.0 U	40,000 U	40,000 U
Acetone	UG/L	50	10.0 UR	10.0 UR	8.58 J	20,000 U	20,000 U
Chloroform	UG/L	7	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
Ethylbenzene	UG/L	5	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	2.00 UR	2.00 UR	1.25 J	4,000 U	4,000 U
Methyl tert-butyl ether	UG/L	10	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
Tetrachloroethene	UG/L	5	2.43	3.30	1.00 U	2,000 U	2,000 U
Toluene	UG/L	5	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
Trichloroethene	UG/L	5	6.41	8.26	1.00 U	134,000	137,000 D
Vinyl chloride	UG/L	2	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U

*- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds

Only Detected Results Reported.

Detection Limits shown are PQL

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[MATRIX] = 'WG' AND ([LOGDATE] BETWEEN #11/9/2017# AND #11/14/2017#)

TABLE 4
UTC/CARRIER THOMPSON ROAD SITE
ANNUAL SITE-WIDE GROUNDWATER MONITORING
STATISICAL SUMMARY OF GROUNDWATER RESULTS - NOVEMBER 2017

Parameter	Units	Criteria*	No. of Samp-les	No. of Detect-ions	Freq. of Detect-ions	Range of Detections			No. Exceed	Location of Max Value
						Min	Max	Avg		
Volatile Organic Compounds										
1,1,1-Trichloroethane	UG/L	5	32	4	12.5%	1.05	88.00	22.91	1	MW-23
1,1-Dichloroethane	UG/L	5	32	7	21.9%	0.340	266.0	52.26	4	MW-23
1,2-Dichloroethene (cis)	UG/L	5	32	16	50.0%	0.675	2.45E+04	2,336	14	TR3-PW-01
1,2-Dichloroethene (trans)	UG/L	5	32	9	28.1%	0.440	38.00	7.04	3	MW-18
1,4-Dioxane	UG/L	-	32	1	3.1%	16.20	16.20	16.20	0	MW-70
Acetone	UG/L	50	19	7	36.8%	0.880	8.58	2.57	0	TR3-MW-02
Chloroform	UG/L	7	32	1	3.1%	0.510	0.510	0.510	0	MW-75
Ethylbenzene	UG/L	5	32	1	3.1%	33.23	33.23	33.23	1	MW-23
Methyl ethyl ketone (2-Butanone)	UG/L	50	19	1	5.3%	1.25	1.25	1.25	0	TR3-MW-02
Methyl tert-butyl ether	UG/L	10	32	2	6.3%	0.310	0.330	0.320	0	MW-17
Tetrachloroethene	UG/L	5	32	2	6.3%	1.13	2.87	2.00	0	MW-84
Toluene	UG/L	5	32	1	3.1%	84.00	84.00	84.00	1	MW-23
Trichloroethene	UG/L	5	32	18	56.3%	0.960	1.36E+05	7,850	12	TR3-PW-01
Vinyl chloride	UG/L	2	32	9	28.1%	0.500	1,840	249.4	8	MW-18

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Cl


Concentration Exceeds Criteria

Only Detected Results Reported.

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WHERE LOGDATE BETWEEN #11/9/2017# AND #11/14/2017# AND LOCID <> 'FIELDQC';

APPENDIX A
LOW FLOW GROUNDWATER PURGING/SAMPLING LOGS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: AR-MW-02

Date: 11/13/17 Sampling Personnel: T. Urban Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE + Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 3.34 Depth to Well Bottom: 12.80 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 5.84 Estimated Purge Volume (liters): _____

Sample ID: AR-MW-02 Sample Time: 1135 QA/QC: none

Sample Parameters: VOCs only

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1105	7.96	12.92	0.931	7.92	55.5	215	200	3.34
1110	7.21	12.86	0.929	0.41	71.2	220	200	4.07
1115	7.07	12.91	0.920	0.00	59.9	223	200	4.32
1120	7.01	12.79	0.920	0.00	39.3	224	200	4.55
1125	6.99	12.65	0.922	0.00	34.1	223	200	4.62
1130	6.98	12.76	0.921	0.00	28.0	223	200	4.65
1135	6.98	12.61	0.917	0.00	24.0	223	200	4.70
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{wi} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: AR-MW-06

Date: 11/13/17 Sampling Personnel: T. Urban Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: HDPE & Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.22 Depth to Well Bottom: 13.34 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 2.54 Estimated Purge Volume (liters): _____

Sample ID: AR MW-06 Sample Time: 1048 QA/QC: none

Sample Parameters: VOCs only

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1028	7.52	14.01	1.72	4.02	37.4	226	200	9.22
1033	7.34	13.61	1.71	1.01	34.2	228	200	9.80
1039	7.28	13.53	1.73	0.00	61.2	229	200	9.91
1043	7.23	13.52	1.73	0.00	49.8	226	200	10.08
1048	7.31	13.45	1.73	0.00	43.7	224	200	10.20
1053								
1058								
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($v_{ol_{ft}} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: _____ Site: UTC Well I.D.: DP-MW-04

Date: 11/14/17 Sampling Personnel: T. Urban Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE+Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 1.85 Depth to Well Bottom: 11.60 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 6.0 Estimated Purge Volume (liters): _____

Sample ID: DP-MW-04 Sample Time: 0810 QA/QC: none

Sample Parameters: VOCs only

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0740	6.74	11.64	1.51	2.51	232	44	200	1.85
0745	6.74	11.79	1.50	0.29	135	26	200	2.45
0750	6.72	12.10	1.49	0.00	89.3	20	210	2.55
0755	6.72	12.46	1.49	0.00	165	12	200	2.77
0800	6.71	12.49	1.49	0.00	59.9	11	200	2.86
0805	6.70	12.47	1.49	0.00	33.2	9	200	3.03
0810	6.70	12.61	1.50	0.00	27.5	7	200	3.12
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_l = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: MW-03D

Date: 11/9/17 Sampling Personnel: TU / RM Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE / Silicone ~~PVC~~ Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.49 Depth to Well Bottom: 29.80 Well Diameter: 2" Screen Length: _____

Casing Type: PVC 22.31 Volume in 1 Well Casing (liters): 13.8 Estimated Purge Volume (liters): _____

Sample ID: MW-03D Sample Time: 0833 QA/QC: none

Sample Parameters: VOCs only

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
743	7.63	15.39	2.66	6.48	49.6	6	300	7.49
748	7.27	15.43	2.66	1.48	41.8	-13	300	9.68
753	7.19	15.35	2.66	0.30	33.5	-22	300	10.78
758	7.18	15.29	2.68	0.00	36.7	-24	300	11.42
803	7.24	15.10	2.68	0.00	36.9	-28	300	11.56
808	7.23	15.14	2.71	0.00	34.9	-27	300	12.20
813	7.23	15.08	2.70	0.00	35.7	-31	300	12.65
818	7.27	14.96	2.70	0.00	130	-29	300	12.90
823	7.24	15.07	2.70	0.00	109	-31	300	13.27
828	7.24	15.06	2.70	0.00	103	-32	300	13.57
833	7.25	15.11	2.70	0.00	110	-33	300	13.78
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: MW-035

Date: 11/9/17 Sampling Personnel: T.U. / R.M Company: AECOM

Purging/Sampling Device: Grundfos - Tubing Type: LDPE/Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 6.62 Depth to Well Bottom: 14.60 Well Diameter: 2 Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 4.92 Estimated Purge Volume (liters): _____

Sample ID: MW-035 Sample Time: 0820 QA/QC: none

Sample Parameters: VOCs only

PURGE PARAMETERS

TOP OF CASING +1.68

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0745	7.27	15.99	3.79	1.72	298	-90	300	8.62
0750	7.11	16.30	3.74	0.14	209	-96	250	8.91
0755	7.25	16.27	3.58	0.00	106	-101	250	8.96
0800	7.44	16.12	3.25	0.00	54.4	-104	250	9.12
0805	7.47	16.19	3.24	0.00	36.7	-106	250	9.22
0810	7.46	16.32	3.27	0.00	23.7	-111	250	9.35
0815	7.44	16.31	3.29	0.00	20.3	-112	250	9.40
0820	7.42	16.25	3.33	0.00	18.8	-112	250	9.45
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

SUBTRACT 1.68

6.92
7.23
7.28
7.44
7.54
7.60
7.72
7.77

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($v_{ol_f} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: ______________ Site: UTC-CARRIER Well I.D.: MW-09

Date: 11/10/17 Sampling Personnel: [illegible] Company: AECOM

Purging/Sampling Device: Geo pump Tubing Type: LDPE/Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 6.36 Depth to Well Bottom: 17.46 Well Diameter: 2" SS Screen Length: ______

Casing Type: PVC Volume in 1 Well Casing (liters): 11.1 6.9 Estimated Purge Volume (liters): ______

Sample ID: MW-09 Sample Time: 1400 QA/QC: ——

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1309	7.41	7.45	0.631	17.94	782	130	250	6.36
1314	7.50	9.58	0.556	9.58	496	141	250	6.72
1319	7.51	10.12	0.499	9.47	200	142	225	7.24
1324	7.47	10.01	0.510	9.22	120	143	225	7.48
1329	7.45	9.91	0.515	9.18	902	144	225	7.72
1334	7.42	9.90	0.519	9.11	41.6	145	225	7.98
1339	7.39	9.97	0.525	9.10	36.1	146	225	8.04
1344	7.40	9.98	0.542	9.06	33.9	146	225	8.16
1349	7.39	10.06	0.555	8.80	31.0	147	225	8.29
1354	7.37	9.66	0.573	7.95	31.3	148	225	8.52
1357	7.36	9.78	0.576	7.42	33.7	148	225	8.59
1400	7.36	9.78	0.582	7.33	32.2	148	225	8.69
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Iron staining - particulates/floc @ start

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: MW-10

Date: 11/9 Sampling Personnel: T. Urban Company: AECOM

Purging/Sampling Device: GeoPump Tubing Type: LDPE + Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.06 Depth to Well Bottom: 14.85 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 4.19 Estimated Purge Volume (liters): _____

Sample ID: MW-10 Sample Time: 1535 QA/QC: None

Sample Parameters: VOCs only

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1500	7.26	15.05	4.14	4.55	650	7	200	8.06
1505	7.20	15.35	4.13	2.84	522	9	200	8.26
1510	7.07	15.39	4.11	0.70	366	11	206	8.57
1515	7.04	15.76	4.09	0.00	303	10	240	8.88
1520	7.05	16.03	3.97	0.00	250	2	220	9.25
1525	7.15	15.94	3.94	0.06	74.7	6	200	9.56
1530	7.19	16.03	4.01	0.00	31.0	10	200	9.72
1535	7.19	15.91	4.03	0.00	30.2	16	200	9.93
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{fl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: MW-14

Date: 11/13 Sampling Personnel: T. Urban Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE + Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.86 Depth to Well Bottom: 21.17 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 6.4 Estimated Purge Volume (liters): _____

Sample ID: MW-14 Sample Time: 1420 QA/QC: NONE

Sample Parameters: VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1350	7.33	10.90	1.92	8.21	69.1	-84	240	10.86
1355	6.83	11.69	1.84	0.00	29.2	-91	200	11.63
1400	6.82	11.52	1.80	0.00	45.2	-93	200	11.74
1405	6.82	11.30	1.80	0.00	10.5	-94	200	11.93
1410	6.82	11.33	1.78	0.00	110	-92	200	12.05
1415	6.82	11.16	1.79	0.00	107	-92	200	12.23
1420	6.81	11.05	1.80	0.00	101	-92	200	12.33
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_l = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: MW-17

Date: 11/10 Sampling Personnel: T. Urban Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE+silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 5.24 Depth to Well Bottom: 9.50 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): _____ Estimated Purge Volume (liters): _____

Sample ID: MW-17 Sample Time: 0835 QA/QC: None

Sample Parameters: VOCs only

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0805	6.45	12.47	6.13	3.40	>1000	-26	200	5.24
0810	6.51	12.58	5.94	1.14	>1000	-33	200	5.55
0815	6.56	12.42	5.82	0.00	957	-56	200	7.15
0820	7.02	11.76	5.82	0.00	>1000	-37	150	7.35
0825	7.05	12.95	5.88	0.00	>1000	-23	100	9.34
0830	7.04	10.52	5.85	0.00	492	-32	100	9.42
0835	7.05	10.52	5.86	0.00	24	-27	100	9.50
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_l = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: MW-18

Date: 11/13/17 Sampling Personnel: T. Urban Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE + Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.85 Depth to Well Bottom: 9.28 Well Diameter: 2" Screen Length: _____

Casing Type: ~~PVC~~ SS Volume in 1 Well Casing (liters): 2.73 Estimated Purge Volume (liters): _____

Sample ID: MW-18 Sample Time: 1310 QA/QC: MS/MSD

Sample Parameters: VOCs (

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1225	7.21	10.21	2.11	8.87	104	53	200	4.85
1230	7.03	11.45	2.07	0.27	76.0	-25	200	4.90
1235	6.95	12.05	2.20	0.00	39.4	-26	200	4.90
1240	6.94	12.20	2.40	0.00	34.7	-31	200	4.90
1245	6.90	12.32	2.91	0.00	24.9	-39	200	4.90
1250	6.89	12.35	3.11	0.00	24.5	-42	200	4.90
1255	6.91	12.33	3.45	0.00	20.1	-49	200	4.90
1300	6.92	12.27	3.85	0.00	19.4	-53	200	4.90
1305	6.94	12.38	3.90	0.00	18.1	-56	200	4.90
1310	6.95	12.44	3.93	0.00	17.4	-60	200	4.90
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_H = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: _____ Site: ITC CARRIER Well I.D.: MW-19

Date: 11/9/17 Sampling Personnel: R. MURPHY Company: AECOM

Purging/ Sampling Device: Geopump Tubing Type: LDPE/Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.39 Depth to Well Bottom: 16.62 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): _____ Estimated Purge Volume (liters): _____

Sample ID: MW-19 Sample Time: 1607 QA/QC: MS/MSD

Sample Parameters: VOCs / PCBs (filtered/unfiltered)

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1537	7.43	14.77	1.85	12.46	72.1	-87	270	8.39
1542	7.33	15.52	1.71	0.87	39.7	-83	230	8.82
1547	7.35	15.52	1.69	0.49	25.2	-39	230	8.88
1552	7.34	15.57	1.65	0.30	20.6	-18	230	9.07
1557	7.31	15.52	1.67	0.05	17.9	+4	230	9.18
1602	7.30	15.44	1.68	0.00	16.9	8	230	9.24
1607	7.31	15.34	1.70	0.00	16.1	12	230	9.28
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: _____ Site: UTC CARRIER Well I.D.: MW-21

Date: 10/7 Sampling Personnel: KM Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE/Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.37 Depth to Well Bottom: 14.34 / 4.97 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 3.1 Estimated Purge Volume (liters): _____

Sample ID: MW-21 Sample Time: 0839 QA/QC: —

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0814	7.49	13.08	1.05	6.35	115	41	250	9.37
819	7.01	12.99	1.05	2.34	29.4	36	250	9.47
824	6.92	12.92	1.07	1.79	16.8	87	250	9.47
829	6.90	12.82	1.07	1.64	15.8	95	250	9.47
834	6.89	12.64	1.07	1.53	15.5	99	250	9.47
839	6.86	12.74	1.07	1.65	16.2	104	250	9.47
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: CARRIER Well I.D.: MW-23

Date: 11/9/17 Sampling Personnel: R MURPHY Company: AECOM

Purging/Sampling Device: GEOPUMP Tubing Type: LDPE/Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.53 Depth to Well Bottom: 16.32 Well Diameter: 2" Screen Length:

Casing Type: PVC Volume in 1 Well Casing (liters): 4.8 (7.79) Estimated Purge Volume (liters):

Sample ID: MW-23 Sample Time: 1442 QA/QC: Duplicate (FD-110917)

Sample Parameters: VOCs, PCBs (Filtered/unfiltered)

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
1412	7.35	15.05	1.43	0.63	25.8	-104	260	~~10.44~~ 8.53	1.3
1417	7.31	15.34	1.42	0.00	18.1	-113	210	~~10.44~~	
1422	7.29	15.55	1.38	0.00	17.3	-116	310	11.88	2.1
1427	7.28	15.61	1.36	0.00	15.5	-119	130	12.65	
1432	7.28	15.64	1.33	0.00	15.8	-120	130	13.12	1.3
1437	7.28	15.70	1.32	0.00	16.5	-120	130	13.5	
1442	7.28	15.67	1.29	0.00	29.5	-121	130	14.18	
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—		

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol. = \pi r^2 h$)

Remarks: Begins to gurgle while filling PCB volumes makes water @ low rate - continue to fill 1-liter Ambers

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: MW-26

Date: 11/9/17 Sampling Personnel: T. U. Company: AECOM

Purging/Sampling Device: GeoPump Tubing Type: LDPE + silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.22 Depth to Well Bottom: 21.57 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 10.7 Estimated Purge Volume (liters): 11.0

Sample ID: MW-26 Sample Time: 1120 QA/QC: none

Sample Parameters: PCB's (filtered + unfiltered); VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1025	7.59	14.37	0.5541	6.71	516	41	200	4.22
1030	7.54	14.85	0.537	6.53	112	71	200	5.00
1035	7.50	15.19	0.518	6.98	45.0	126	200	5.71
1040	7.51	15.26	0.521	5.94	35.5	145	200	6.47
1045	7.51	15.37	0.524	5.87	17.1	170	200	7.21
1050	7.50	15.39	0.527	5.70	6.5	178	200	7.88
1055	7.50	15.39	0.528	5.88	6.1	184	200	8.53
1100	7.49	15.37	0.533	5.21	8.4	190	200	9.35
1105	7.49	15.47	0.531	5.46	13.3	193	200	9.94
1110	7.48	15.51	0.532	5.86	8.7	194	200	10.48
1115	7.48	15.58	0.531	5.78	4.1	194	200	11.21
1120	7.48	15.61	0.530	5.71	3.7	194	200	11.72
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_H = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC-CARRIER Site: CARRIER Well I.D.: MW-38

Date: 11/9/17 Sampling Personnel: R. MURPHY Company: AECOM

Purging/Sampling Device: GEOPUMP- Tubing Type: LDPE/SILICONE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.13 Depth to Well Bottom: 14.78 Well Diameter: 2" Screen Length:

Casing Type: PVC Volume in 1 Well Casing (liters): 6.65 4.1 Estimated Purge Volume (liters):

Sample ID: MW-38 Sample Time: 1150 QA/QC: NONE

Sample Parameters: PCB (filtered + unfiltered); VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1100	7.48	10.95	1.51	8.67	352	126	240	8.13
1105	7.20	12.00	1.23	8.90	91.1	143	240	9.69
1110	7.19	14.34	0.967	8.61	95.1	146	240	10.59
1115	7.16	15.25	0.994	7.57	143	151	160	11.22
1120	7.14	15.26	1.00	7.54	103	153	160	11.67
1125	7.14	15.37	1.11	6.95	80.5	154	160	11.98
1130	7.13	15.42	1.22	7.55	77.9	153	160	12.40
1135	7.13	15.52	1.32	7.43	92.2	154	160	12.87
1140	7.13	15.45	1.48	7.13	129	153	150	13.30
1145	7.13	15.39	1.50	7.13	305	152	150	13.48
1150	7.13	15.20	1.51	7.10	580	155	150	13.70
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{wi} = \pi r^2 h$)

Remarks: ONLY 1' OF WATER LEFT, BEGIN SAMPLING @ 1150

FILTERED SAMPLE WAS STILL VERY CLOUDY LOOKING

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: MW-44

Date: 11/10 Sampling Personnel: T. Urban Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE + Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 6.25 Depth to Well Bottom: 15.70 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): _____ Estimated Purge Volume (liters): _____

Sample ID: MW-44 Sample Time: 1025 QA/QC: none

Sample Parameters: VOCs; PCBs (filtered + unfiltered)

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0940	7.29	12.42	4.951	7.57	720	1	200	6.25
0945	7.51	12.46	1.414	3.55	372	-23	200	6.33
0950	7.56	12.57	1.42	4.44	459	-17	200	6.40
0955	7.57	12.03	1.23	4.67	242	-81	200	6.44
1000	7.55	12.18	1.21	4.62	235	-17	200	6.47
1005	7.55	12.20	0.973	5.62	71	-113	200	6.50
1010	7.54	12.08	0.911	2.64	25.5	-123	200	6.50
1015	7.52	12.15	0.901	2.10	19.2	-133	200	6.52
1020	7.52	12.34	0.894	2.14	17.0	-137	200	6.55
1025	7.51	12.37	0.915	2.02	13.5	-142	200	6.55
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_l = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: _____ Site: OTC - CARRIER Well I.D.: MW-45

Date: 11/14/17 Sampling Personnel: RM Company: AECOM

Purging/Sampling Device: _____ Tubing Type: _____ Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.14 Depth to Well Bottom: 13.05 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 5.91 3.6 Estimated Purge Volume (liters): _____

Sample ID: MW-45 Sample Time: 0855 QA/QC: _____

Sample Parameters: _____

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
745	7.68	8.03	6.59	4.58	>1000	159	100	7.14	
750	7.73	14.18	5.54	0.52	798	134	105	8.52	← 1.7 L pump starts @
755	7.73	14.06	5.47	0.00	885	117	105	9.10	
800	7.74	14.16	4.92	0.00	>1000	105	105	9.36	
805	7.74	14.10	4.52	0.00	>1000	107	105	9.45	
810	7.75	13.50	4.21	0.00	>1000	109	105	9.52	
815	7.75	12.25	4.16	0.00	>1000	101	105	9.62	
820	7.62	12.99	4.38	0.00	>1000	99	105	9.70	
825	7.67	13.07	4.46	0.00	>1000	96	105	9.87	
830	7.55	13.71	4.63	0.00	>1000	103	105	10.05	
835	7.49	14.09	4.53	0.00	>1000	94	105	10.18	
840	7.47	13.91	4.49	0.00	>1000	76	105	10.20	
843	7.42	13.69	4.46	0.00	>1000	66	105	10.20	
846	7.42	13.62	4.49	0.00	>1000	60	105	10.21	
849	7.40	13.69	4.70	0.00	>1000	51	105	10.36	
852	7.42	13.73	4.63	0.00	>1000	49	105	10.38	
855	7.41	13.61	4.57	0.00	>1000	47	105	10.38	
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—		

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_H = \pi r^2 h$)

Remarks: Redevelop well ?? Road Box BROKEN/LID GONE

TB-111317+111417

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: _____ Site: UTC Well I.D.: MW-48

Date: 11/13/17 Sampling Personnel: RM Company: AECOM

Purging/ Sampling Device: _____ Tubing Type: _____ Pump/Tubing Inlet Location: Near Bottom Due to low Recharge ~~Screen midpoint~~

Measuring Point: Below Top of Riser Initial Depth to Water: 10.93 Depth to Well Bottom: 18.30 Well Diameter: _____ Screen Length: _____

7.37

Casing Type: PVC Volume in 1 Well Casing (liters): 4.6 Estimated Purge Volume (liters): _____

Sample ID: MW-48 Sample Time: 1108 QA/QC: —

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
1028	7.96	14.69	0.817	5.14	231	233	220	16.93	1.1
1033	7.62	14.88	0.779	2.75	145	238	105	12.98	
1038	7.52	14.66	0.790	1.85	194	241	105	13.69	
1043	7.50	14.58	0.796	1.36	231	244	105	14.55	
1048	7.47	14.67	0.798	1.19	188	243	105	15.38	
1053	7.48	14.80	0.796	1.25	164	244	105	15.95	
1058	7.48	14.62	0.774	1.96	161	246	105	16.38	
1103	7.52	14.29	0.807	2.12	163	244	105	16.75	
1108	7.45	14.31	0.775	1.81	190	247	105	17.18	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	—		

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{wl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: _____ Site: _____ Well I.D.: MW-50

Date: 11/13/17 Sampling Personnel: _____ Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE/Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 12.35 Depth to Well Bottom: 20.95 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 8.6 / 5.3 Estimated Purge Volume (liters): _____

Sample ID: MW-50 Sample Time: 1345 QA/QC: —

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1255	7.35	12.73	7.09	0.00	872	-94	205	12.35
1300	7.50	13.52	6.87	0.00	592	-104	205	12.35
1305	7.57	13.63	5.71	0.00	390	-105	205	12.35
1310	7.55	13.81	4.60	0.00	295	-91	205	12.35
1315	7.56	13.95	3.95	0.00	182	-72	205	12.35
1320	7.57	14.12	3.13	0.00	162	-54	205	12.35
1325	7.55	14.21	3.02	0.00	100.	-44	205	12.35
1330	7.54	14.25	2.90	0.00	42.1	-34	205	12.35
1335	7.53	14.27	2.73	0.00	12.0	-24	205	12.35
1340	7.51	14.20	2.70	0.00	10.1	-18	205	12.35
1345	7.50	14.13	2.69	0.00	7.9	-15	205	12.35
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_l = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: _____ Site: Carrier Well I.D.: MW-57

Date: 11/13/17 Sampling Personnel: RW Company: AECOM

Purging/Sampling Device: GeoPump Tubing Type: LDPE/Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.07 Depth to Well Bottom: 22.25 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 18.18 11.2 Estimated Purge Volume (liters): _____

Sample ID: MW-57 Sample Time: 1710 QA/QC: —

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)	
1625	7.94	12.82	1.86	7.09	151	-63	210	4.07	
1630	7.66	13.63	1.66	0.00	107	-71	210	5.08	
1635	7.71	13.58	1.03	0.00	78.7	-66	210	5.78	
1640	7.68	13.42	0.890	0.00	69.1	-50	210	6.52	
1645	7.63	13.37	0.790	0.00	60.9	-32	210	7.10	
1650	7.61	13.52	0.855	0.00	56.1	-41	210	7.75	
1655	7.70	13.32	0.856	0.00	46.2	-41	125	7.95	← lowered rate to reduce turbidity
1700	7.64	13.29	0.886	0.00	36.7	-39	125	8.06	
1705	7.62	13.26	0.912	0.00	25.0	-35	125	8.18	
1710	7.62	13.34	0.910	0.00	22.8	-32	125	8.30	
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	—		

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{ft} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: _____ Site: UTC - CARRIER Well I.D.: MW-58

Date: 1/13/17 Sampling Personnel: _____ Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: Tefzel / Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: ~~5.26~~ 3.56 Depth to Well Bottom: ~~22.12~~ 23.50 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 19.44 12.3 Estimated Purge Volume (liters): _____

Sample ID: MW-58 Sample Time: 1510 QA/QC: —

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1435	7.22	13.34	3.12	0.37	48.4	-94	390	3.56
1440	7.48	13.62	3.10	0.00	40.7	-83	390	4.85
1445	7.55	13.76	2.92	0.00	38.8	-84	390	5.02
1450	7.55	13.80	2.81	0.00	41.6	-66	390	5.42
1455	7.51	13.33	2.81	0.00	28.8	-44	200	5.68
1500	7.47	13.21	2.92	0.00	20.9	-34	200	5.00
1505	7.46	13.26	2.81	0.00	14.6	-32	200	6.20
1510	7.45	13.12	2.81	0.00	17.9	-31	200	6.42
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_l = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: _____ Site: _____ Well I.D.: MW-66

Date: 11/13/17 Sampling Personnel: _____ Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE/Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 6.09 Depth to Well Bottom: 22.60 Well Diameter: 2" Screen Length: _____

16.51

Casing Type: PVC Volume in 1 Well Casing (liters): 10.1 Estimated Purge Volume (liters): _____

Sample ID: MW-66 Sample Time: 1600 QA/QC: None

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1525	7.56	11.62	3.43	0.00	31.7	-60	240	6.09
1530	7.59	12.47	3.35	0.00	16.6	-83	240	6.27
1535	7.54	12.69	3.31	0.00	13.8	-89	240	6.31
1540	7.54	12.70	3.29	0.00	18.3	-89	240	6.32
1545	7.50	12.68	3.28	0.00	20.8	-77	240	6.32
1550	7.45	12.62	3.28	0.00	15.4	-69	240	6.34
1555	7.45	12.58	3.28	0.00	8.9	-70	240	6.35
1600	7.45	12.52	3.27	0.00	6.4	-72	240	6.36
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{wl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: MW-69

Date: 11/10 Sampling Personnel: T. Urban Company: AECOM

Purging/ Sampling Device: Geopump Tubing Type: LDPE + silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 5.05 Depth to Well Bottom: 13.50 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 5.2 Estimated Purge Volume (liters): _____

Sample ID: MW-69 Sample Time: 1340 QA/QC: none

Sample Parameters: VOCs only

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1310	7.17	8.77	5.53	0.25	1.89	201	150	5.06
1315	7.24	9.42	5.41	0.00	248	188	150	5.45
1320	7.30	9.94	5.39	0.00	267	170	160	5.45
1325	7.30	9.80	5.32	0.00	245	162	160	5.45
1330	7.24	9.74	5.62	0.00	237	157	210	5.62
1335	7.27	8.99	5.66	0.00	1.82	155	210	5.90
1340	7.25	8.01	5.38	0.00	272	157	210	6.09
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_l = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: _____ Site: _____ Well I.D.: MW-70

Date: 11/10/17 Sampling Personnel: _____ Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE/Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.83 Depth to Well Bottom: 17.90 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 5.6 Estimated Purge Volume (liters): _____

Sample ID: MW-70 Sample Time: 950 QA/QC: —

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
920	6.76	9.42	1.54	5.21	28.7	84	280	10.83
925	6.71	11.62	1.46	0.00	39.4	37	205	11.52
930	6.64	11.51	1.41	0.00	33.2	40	205	11.78
0935	6.63	11.38	1.41	0.00	27.6	41	205	12.03
0940	6.65	11.36	1.41	0.00	24.9	40	205	12.35
0945	6.68	11.34	1.41	0.00	22.1	39	205	12.55
0950	6.73	11.32	1.41	0.00	21.8	38	205	12.84
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{ft} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: MW-71

Date: 11/9/17 Sampling Personnel: T. Urban Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE + silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.22 Depth to Well Bottom: 15.00 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 3.57 Estimated Purge Volume (liters): _____

Sample ID: MW-71 Sample Time: 1440 QA/QC: none

Sample Parameters: VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1405	7.66	14.15	0.899	1.64	87.6	-46	200	9.22
1410	7.63	14.55	0.897	0.01	56.6	-66	200	9.46
1415	7.61	14.92	0.893	0.00	109	-74	200	9.51
1420	7.57	14.99	0.897	0.00	79.4	-73	200	9.56
1425	7.57	14.95	0.923	0.00	51.0	-75	200	9.57
1430	7.55	15.04	0.966	0.00	30.9	-73	200	9.57
1435	7.55	15.06	0.970	0.00	20.5	-73	200	9.58
1440	7.53	14.90	0.972	0.00	21.3	-72	200	9.58
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_H = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: MW-75

Date: 11/10/17 Sampling Personnel: J Urban Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE + Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.95 Depth to Well Bottom: 9.90 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): _____ Estimated Purge Volume (liters): _____

Sample ID: MW-75 Sample Time: 1137 QA/QC: none

Sample Parameters: VOCs only

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1107	7.17	12.78	1.12	1.32	91.0	84	160	9.95
1112	7.36	12.65	1.10	2.47	6.25	113	160	7.40
1117	7.33	12.46	1.08	1.57	38.1	132	160	7.67
1122	7.32	12.27	1.05	0.93	24.1	137	160	7.80
1127	7.33	10.79	1.07	0.00	13.2	143	120	7.90
1132	7.32	11.45	1.07	0.00	7.3	146	120	8.05
1137	7.35	11.03	1.07	0.00	6.0	145	120	8.12
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($v_{ol} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: _____ Site: _____ Well I.D.: MW-76

Date: 11/10/17 Sampling Personnel: C. Murphy Company: Aecom ~~URS Corporation~~

Purging/Sampling Device: _____ Tubing Type: _____ Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 6.76 Depth to Well Bottom: 14.30 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): _____ Estimated Purge Volume (liters): _____

Sample ID: MW-76 Sample Time: 1525 QA/QC: —

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1434	7.46	6.29	4.82	7.17	57.6	105	250	6.96
1439	6.86	8.36	4.01	0.00	56.9	58	250	7.48
1444	6.79	10.67	2.52	0.95	78.5	90	225	7.70
1449	6.79	10.90	2.30	2.65	55.9	101	225	7.88
1454	6.81	10.67	2.50	2.25	32.1	96	200	8.10
1459	6.80	10.73	2.66	1.71	21.5	89	200	8.25
1504	6.83	11.06	2.83	1.18	19.5	80	200	8.36
1509	6.85	11.37	3.02	0.57	29.3	69	200	8.48
1514	6.86	11.35	3.20	0.00	28.2	59	200	8.58
1519	6.89	11.41	3.40	0.00	28.3	49	200	8.62
1522	6.91	11.34	3.44	0.00	27.8	47	200	8.72
1525	6.91	11.40	3.52	0.00	27.1	44	200	8.78
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft, 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{wi} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: MW-77

Date: 11/10/17 Sampling Personnel: T. Urban Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE + Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.62 Depth to Well Bottom: 14.15 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 3.4 Estimated Purge Volume (liters): _____

Sample ID: MW-77 Sample Time: 1455 QA/QC: None

Sample Parameters: VOCs only

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1425	7.54	10.72	1.01	6.15	7000	173	200	8.62
1430	7.21	12.25	0.949	0.51	7000	154	200	9.10
1435	7.03	11.81	0.971	0.19	7000	152	200	9.25
1440	6.99	13.12	0.956	0.00	7000	153	200	9.45
1445	6.99	12.55	1.00	0.00	313	154	200	9.76
1450	6.99	13.07	1.02	0.00	156	154	200	10.80
1455	6.99	12.84	1.01	0.00	45	156	200	10.92
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($v_{cyl} = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: MW-79

Date: 11/13/17 Sampling Personnel: T. Urban Company: AECOM

Purging/Sampling Device: GeoPump Tubing Type: LDPE+silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 3.50 Depth to Well Bottom: 10.02 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 4.0 Estimated Purge Volume (liters): _____

Sample ID: MW-79 Sample Time: 1603 QA/QC: none

Sample Parameters: VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1533	7.18	12.44	2.28	0.60	81.9	-51	240	3.50
1538	7.14	12.75	2.27	0.00	61.3	-24	240	3.50
1543	7.13	13.06	2.25	0.00	41.4	-3	240	4.00
1548	7.13	13.04	2.24	0.00	31.2	16	240	4.22
1553	7.13	13.07	2.25	0.00	29.0	30	200	4.38
1558	7.13	13.06	2.27	0.00	23.5	33	200	4.53
1603	7.12	13.10	2.29	0.00	22.6	34	200	4.66
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_l = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: _____ Site: JC-CARRIER Well I.D.: MW-84

Date: 11/10/17 Sampling Personnel: _____ Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: Latex/Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 6.65 Depth to Well Bottom: 10.95 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): _____ Estimated Purge Volume (liters): _____

Sample ID: MW-84 Sample Time: 1146 QA/QC: DUPLICATE (FD-111017)

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1045	7.16	9.01	4.06	6.28	187	112	300	6.65
1050	7.15	11.34	4.14	4.33	156	113	250	7.42
1055	7.11	12.10	4.21	4.25	156	110	250	7.65
1100	7.15	13.12	4.08	3.40	132	96	225	7.94
1105	7.14	13.36	3.93	2.37	133	78	225	8.17
1110	7.12	13.64	3.67	1.05	169	51	225	8.33
1115	7.13	13.62	3.44	0.14	185	27	225	8.52
1120	7.10	13.59	3.24	0.00	202	7	225	8.74
1125	7.09	13.63	3.19	0.00	>1000	0	225	8.98
1130	7.07	15.36	3.08	0.00	>1000	11	200	9.06
1135	7.08	15.32	3.14	0.00	>1000	42	200	9.13
1140	7.07	15.47	3.19	0.00	>1000	65	200	9.27
1143	7.08	15.28	3.21	0.00	>1000	71	200	9.32
1146	7.06	15.23	3.22	0.00	>1000	75	200	9.36
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{ft} = \pi r^2 h$)

Remarks: TURBIDITY READINGS SUSPECT, DOES NOT LOOK >1000 NTU.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: UTC Site: _____ Well I.D.: TR3-MW-02

Date: 11/13/17 Sampling Personnel: T. Urban Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE + Silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 2.25 Depth to Well Bottom: 11.65 Well Diameter: 2" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 5.8 Estimated Purge Volume (liters): _____

Sample ID: TR3-MW-02 Sample Time: 1522 QA/QC: none

Sample Parameters: VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1452	7.27	9.74	2.14	6.26	464	-79	240	2.25
1457	6.77	13.74	2.07	0.00	155	-73	240	2.65
1502	6.76	14.05	2.06	0.00	83.9	-74	240	3.96
1507	6.78	13.85	2.01	0.00	54.4	-77	200	3.30
1512	6.80	13.84	1.96	0.00	45.1	-79	200	3.61
1517	6.81	13.75	1.91	0.00	46.3	-80	200	3.83
1522	6.82	13.81	1.88	0.00	34.1	-82	200	4.12
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_f = \pi r^2 h$)

Remarks:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: _____ Site: UTC Cobleskill Well I.D.: TR3-PW-01

Date: 11/13/17 Sampling Personnel: JM Company: AECOM

Purging/Sampling Device: Geopump Tubing Type: LDPE/silicone Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.90 Depth to Well Bottom: 28.30 Well Diameter: 4" Screen Length: _____

Casing Type: PVC Volume in 1 Well Casing (liters): 42 L (17.4) Estimated Purge Volume (liters): _____

Sample ID: TR3-PW-01 Sample Time: 1235 QA/QC: DUPLICATE (FD-111317)

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	ORP (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1135	7.87	13.11	1.36	1.11	24.5	-50	300	10.90
1140	7.33	13.03	1.42	0.00	67.9	-72	300	11.42
1145	7.28	13.04	1.42	0.00	42.4	-75	300	11.65
1150	7.28	13.04	1.43	0.00	36.5	-78	300	11.85
1155	7.28	13.03	1.42	0.00	30.6	-79	300	12.05
1200	7.28	13.02	1.43	0.00	28.3	-80	300	12.20
1205	7.28	13.01	1.43	0.00	23.0	-81	300	12.42
1210	7.28	12.98	1.43	0.00	17.3	-81	300	12.54
1215	7.28	12.90	1.43	0.00	17.5	-82	300	12.65
1220	7.28	12.98	1.43	0.00	18.7	-82	300	12.76
1225	7.28	12.96	1.43	0.00	18.3	-82	300	12.89
1230	7.28	12.96	1.43	0.00	15.4	-82	300	12.97
1235	7.28	12.95	1.43	0.00	16.8	-82	300	13.05
Tolerance:	0.1	—	3%	10%	10%	+ or - 10	—	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_l = \pi r^2 h$)

Remarks:

APPENDIX B
DATA USABILITY SUMMARY REPORT

ANNUAL SITE-WIDE GROUNDWATER MONITORING 2017

Appendix B Data Usability Summary Report

United Technologies Corporation/Carrier Site
Thompson Road, Syracuse, NY

Corrective Action Order – Index CO 7-20051118-4
NYSDEC Site Registry #734043

Project Number: 60557397

January 2018

Prepared for:
United Technologies Corporation
9 Farm Springs Road
Farmington, Connecticut 06032

Prepared by:
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Buffalo
NY, 14202
USA
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Attachments

1. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and the Development of Data Usability Summary Reports, May 2010.

2. ANALYTICAL METHODOLOGIES AND DATA VALIDATION PROCEDURES

The data being evaluated are from the November 9-13, 2017 sampling of 32 groundwater samples, 3 field duplicates, 2 Matrix Spike/Matrix Spike Duplicate (MS/MSD) pairs, and 4 trip blanks. All samples were sent to Eurofins/Spectrum Analytical located in Agawam, MA and were analyzed for the following parameters. Not all samples were analyzed for all parameters.

Parameters	Methods
Volatile Organic Compounds (VOCs)	USEPA 8260C
Total and Filtered Polychlorinated Biphenyls (PCBs)	USEPA 8082A

A limited data validation was performed in accordance with the guidelines in the following USEPA Region II documents:

- Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8260B & 8260C, SOP HW-24, Rev. 4, October 2014; and
- Polychlorinated Biphenyl (PCB) Aroclor Data Validation, SOP HW-37, Rev. 3, May 2013.

Qualifications applied to the data during the limited data validation include ‘R’ (rejected) and ‘UJ’ (estimated quantitation limit). Definitions of USEPA data qualifiers are presented at the end of this text. A summary of data qualifications is presented on Table 1. The validated analytical results are presented on Tables 2 and 3. Copies of validated laboratory analytical summaries (Form 1s) are presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

3. DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC Category B or equivalent) were provided by the laboratory, which included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

4. SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved and under proper chain-of-custody (COC). All samples were analyzed within the required holding times (HT).

5. NON-CONFORMANCES

- **Instrument Calibration**

  The relative response factors (RRF) for acetone and 2-butanone in the initial calibration (ICAL) and continuing calibration standards (CCAL) were below the QC limit of 0.100. The non-detect results for these compounds in the associated samples, as listed on Table 1, were qualified 'R'.

  The percent difference (%D) between the ICAL average RRF and the RRF in the CCAL associated with the samples exceeded the QC limits for VOC methylene chloride. The non-detect results for methylene chloride in the associated samples, as listed on Table 1, were qualified 'UJ'.

  Support documentation (i.e., instrument performance check form (Form VI), initial and continuing calibration summary forms Forms VI and VII, respectfully) is provided in Attachment B.

- **Field Duplicates**

  Good field and analytical precision is defined as the following:

  1. If both the sample and field duplicate (FD) results are greater than 2x the reporting limit (RL), the relative percent difference (%RPD) between the two results must be less than 50%.
  2. If both the sample and FD results are less than 2x the RL, the absolute difference between the two results must be less than the RL.

  Field duplicates were collected at the following sample locations and exhibited good field and analytical precision: MW-23, MW-84, and TR3-PW-01.

6. SAMPLE RESULTS AND REPORTING

All quantitation/detection limits were reported in accordance with method requirements and were adjusted for sample volume and dilution factors. Results below the quantitation limits were qualified 'J' by the laboratory.

Several VOC samples required dilutions due to high levels of target compounds. Those VOC results reported from secondary dilutions were qualified 'D' during the data validation. The quantitation limits reported for the non-detect compounds are the lowest achievable at the diluted level.

7. SUMMARY

All sample analyses were found to be compliant with the method and validation criteria, except where previously noted. Those results qualified 'R' are considered unusable, while those results qualified 'UJ' are considered conditionally usable. All other sample results are usable as reported. AECOM does not recommend the recollection of any samples at this time.

Prepared By: Ann Marie Kropovitch, Chemist **Date:** 1/8/18

Reviewed By: Peter R. Fairbanks, Senior Chemist **Date:** 1/8/18

DEFINITIONS OF USEPA DATA QUALIFIERS

U – The analyte was analyzed for, but was not detected above the level of 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.

UJ – The analyte was analyzed for, but 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 quality control criteria. The analyte may or may not be present in the sample.

D – The sample result was reported from a secondary dilution analysis.

TABLE 1
SITE-WIDE GW INVESTIGATION
UTC/CARRIER SITE
THOMPSON ROAD, SYRACUSE, NY

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	FRACTION	ANALYTICAL DEVIATION	QUALIFICATION
MW-09, MW-10, MW-17, MW-19, MW-21, MW-23, FD-110917 (MW-23), MW-38, MW-44, MW-69, MW-70, MW-75, MW-77, MW-84, FD-111017 (MW-84), TB-110917, and TB-111017	VOCs	ICAL/CCAL RRF <0.100 for acetone and 2-butanone.	Qualify non-detect results 'R'.
MW-09, MW-10, MW-17, MW-19, MW-21, MW-23, FD-110917 (MW-23), MW-38, MW-44, MW-69, MW-70, MW-75, MW-77, MW-84, FD-111017 (MW-84), TB-110917, and TB-111017	VOCs	CCAL %D > 20% for methylene chloride.	Qualify non-detect results 'UJ'.

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		AR-MW-02	AR-MW-06	DP-MW-04	MW-03D	MW-03S
Sample ID		AR-MW-02	AR-MW-06	DP-MW-04	MW-03D	MW-03S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/13/17	11/13/17	11/14/17	11/09/17	11/09/17
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	0.34 J	20.4
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
1,2,4-Trimethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
1,2-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
1,2-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
1,2-Dichloroethene (cis)	UG/L	1.00 U	6.78	1.00 U	9.78	729
1,2-Dichloroethene (trans)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
1,3-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
1,4-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	200 U
Acetone	UG/L	1.88 J	1.65 J	10.0 U	10.0 U	100 U
Benzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Carbon tetrachloride	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Chlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Chloroform	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Ethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	2.00 U	2.00 U	2.00 U	2.00 U	20.0 U
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Methylene chloride	UG/L	2.00 U	2.00 U	2.00 U	2.00 U	20.0 U
n-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
n-Propylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		AR-MW-02	AR-MW-06	DP-MW-04	MW-03D	MW-03S
Sample ID		AR-MW-02	AR-MW-06	DP-MW-04	MW-03D	MW-03S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/13/17	11/13/17	11/14/17	11/09/17	11/09/17
Parameter	Units					
Volatile Organic Compounds						
sec-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
tert-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Tetrachloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Toluene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	10.0 U
Trichloroethene	UG/L	1.00 U	4.75	1.00 U	1.00 U	10.0 U
Vinyl chloride	UG/L	1.00 U	0.50 J	1.00 U	1.00 U	55.3
Xylene (total)	UG/L	3.00 U	3.00 U	3.00 U	3.00 U	30.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Aroclor 1262	UG/L	NA	NA	NA	NA	NA
Aroclor 1268	UG/L	NA	NA	NA	NA	NA
Dissolved Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		AR-MW-02	AR-MW-06	DP-MW-04	MW-03D	MW-03S
Sample ID		AR-MW-02	AR-MW-06	DP-MW-04	MW-03D	MW-03S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/13/17	11/13/17	11/14/17	11/09/17	11/09/17
Parameter	Units					
Dissolved Polychlorinated Biphenyls						
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Aroclor 1262	UG/L	NA	NA	NA	NA	NA
Aroclor 1268	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-09	MW-10	MW-14	MW-17	MW-18
Sample ID		MW-09	MW-10	MW-14	MW-17	MW-18
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/10/17	11/09/17	11/13/17	11/10/17	11/13/17
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.05	1.00 U	1.00 U	1.00 U	100 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	51.0 J
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
1,2,4-Trimethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
1,2-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
1,2-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
1,2-Dichloroethene (cis)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	6,640
1,2-Dichloroethene (trans)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	38.0 J
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
1,3-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
1,4-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	2,000 U
Acetone	UG/L	R	R	1.43 J	R	1,000 U
Benzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Carbon tetrachloride	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Chlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Chloroform	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Ethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	2.00 U	R	200 U
Methyl tert-butyl ether	UG/L	1.00 U	0.31 J	1.00 U	0.33 J	100 U
Methylene chloride	UG/L	2.00 UJ	2.00 UJ	2.00 U	2.00 UJ	200 U
n-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
n-Propylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-09	MW-10	MW-14	MW-17	MW-18
Sample ID		MW-09	MW-10	MW-14	MW-17	MW-18
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/10/17	11/09/17	11/13/17	11/10/17	11/13/17
Parameter	Units					
Volatile Organic Compounds						
sec-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
tert-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Tetrachloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Toluene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Trichloroethene	UG/L	2.84	1.00 U	1.00 U	1.00 U	3,950
Vinyl chloride	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1,840
Xylene (total)	UG/L	3.00 U	3.00 U	3.00 U	3.00 U	300 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Aroclor 1262	UG/L	NA	NA	NA	NA	NA
Aroclor 1268	UG/L	NA	NA	NA	NA	NA
Dissolved Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-09	MW-10	MW-14	MW-17	MW-18
Sample ID		MW-09	MW-10	MW-14	MW-17	MW-18
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/10/17	11/09/17	11/13/17	11/10/17	11/13/17
Parameter	Units					
Dissolved Polychlorinated Biphenyls						
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Aroclor 1262	UG/L	NA	NA	NA	NA	NA
Aroclor 1268	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-19	MW-21	MW-23	MW-23	MW-26
Sample ID		MW-19	MW-21	FD-110917	MW-23	MW-26
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/09/17	11/10/17	11/09/17	11/09/17	11/09/17
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.00 U	79.0 J	97.0 J	1.17
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	271	261	0.52 J
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
1,2,4-Trimethylbenzene	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
1,2-Dichlorobenzene	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
1,2-Dichloroethane	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	1.00 U	1.04	5,970	4,020	1.00 U
1,2-Dichloroethene (trans)	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
1,3-Dichlorobenzene	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
1,4-Dichlorobenzene	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	2,000 U	2,000 U	20.0 U
Acetone	UG/L	R	R	R	R	10.0 U
Benzene	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
Carbon tetrachloride	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
Chlorobenzene	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
Chloroform	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
Ethylbenzene	UG/L	1.00 U	1.00 U	100 U	50.0 J	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	R	R	2.00 U
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
Methylene chloride	UG/L	2.00 UJ	2.00 UJ	200 UJ	200 UJ	2.00 U
n-Butylbenzene	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
n-Propylbenzene	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-19	MW-21	MW-23	MW-23	MW-26
Sample ID		MW-19	MW-21	FD-110917	MW-23	MW-26
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/09/17	11/10/17	11/09/17	11/09/17	11/09/17
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
sec-Butylbenzene	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
tert-Butylbenzene	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
Tetrachloroethene	UG/L	1.00 U	1.00 U	100 U	100 U	1.13
Toluene	UG/L	1.00 U	1.00 U	81.0 J	87.0 J	1.00 U
Trichloroethene	UG/L	1.25	5.23	491	318	8.17
Vinyl chloride	UG/L	1.00 U	1.00 U	233	227	1.00 U
Xylene (total)	UG/L	3.00 U	3.00 U	300 U	300 U	3.00 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.208 U	NA	0.220 U	0.220 U	0.206 U
Aroclor 1221	UG/L	0.208 U	NA	0.220 U	0.220 U	0.206 U
Aroclor 1232	UG/L	0.208 U	NA	0.220 U	0.220 U	0.206 U
Aroclor 1242	UG/L	0.208 U	NA	0.220 U	0.220 U	0.206 U
Aroclor 1248	UG/L	0.208 U	NA	0.220 U	0.220 U	0.206 U
Aroclor 1254	UG/L	0.208 U	NA	0.220 U	0.220 U	0.206 U
Aroclor 1260	UG/L	0.208 U	NA	0.220 U	0.220 U	0.206 U
Aroclor 1262	UG/L	0.208 U	NA	0.220 U	0.220 U	0.206 U
Aroclor 1268	UG/L	0.208 U	NA	0.220 U	0.220 U	0.206 U
Dissolved Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.198 U	NA	0.227 U	0.222 U	0.208 U
Aroclor 1221	UG/L	0.198 U	NA	0.227 U	0.222 U	0.208 U
Aroclor 1232	UG/L	0.198 U	NA	0.227 U	0.222 U	0.208 U
Aroclor 1242	UG/L	0.198 U	NA	0.227 U	0.222 U	0.208 U
Aroclor 1248	UG/L	0.198 U	NA	0.227 U	0.222 U	0.208 U

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-19	MW-21	MW-23	MW-23	MW-26
Sample ID		MW-19	MW-21	FD-110917	MW-23	MW-26
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/09/17	11/10/17	11/09/17	11/09/17	11/09/17
Parameter	Units			Field Duplicate (1-1)		
Dissolved Polychlorinated Biphenyls						
Aroclor 1254	UG/L	0.198 U	NA	0.227 U	0.222 U	0.208 U
Aroclor 1260	UG/L	0.198 U	NA	0.227 U	0.222 U	0.208 U
Aroclor 1262	UG/L	0.198 U	NA	0.227 U	0.222 U	0.208 U
Aroclor 1268	UG/L	0.198 U	NA	0.227 U	0.222 U	0.208 U

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-38	MW-44	MW-45	MW-48	MW-50
Sample ID		MW-38	MW-44	MW-45	MW-48	MW-50
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/09/17	11/10/17	11/14/17	11/13/17	11/13/17
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.41	5.00 U	1.00 U	1.00 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	5.00 U	0.96 J	1.00 U
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
1,2,4-Trimethylbenzene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
1,2-Dichloroethane	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	8.12	1.00 U	26.2	5.12	1.00 U
1,2-Dichloroethene (trans)	UG/L	1.00 U	1.00 U	6.05	0.45 J	1.00 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	100 U	20.0 U	20.0 U
Acetone	UG/L	R	R	5.00 U	0.88 J	10.0 U
Benzene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Carbon tetrachloride	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Chlorobenzene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Chloroform	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Ethylbenzene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	10.0 U	2.00 U	2.00 U
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Methylene chloride	UG/L	2.00 UJ	2.00 UJ	10.0 U	2.00 U	2.00 U
n-Butylbenzene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
n-Propylbenzene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-38	MW-44	MW-45	MW-48	MW-50
Sample ID		MW-38	MW-44	MW-45	MW-48	MW-50
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/09/17	11/10/17	11/14/17	11/13/17	11/13/17
Parameter	Units					
Volatile Organic Compounds						
sec-Butylbenzene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
tert-Butylbenzene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Tetrachloroethene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Toluene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Trichloroethene	UG/L	21.0	4.99	226	10.7	1.00 U
Vinyl chloride	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Xylene (total)	UG/L	3.00 U	3.00 U	15.0 U	3.00 U	3.00 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.217 U	0.200 U	NA	NA	NA
Aroclor 1221	UG/L	0.217 U	0.200 U	NA	NA	NA
Aroclor 1232	UG/L	0.217 U	0.200 U	NA	NA	NA
Aroclor 1242	UG/L	0.217 U	0.200 U	NA	NA	NA
Aroclor 1248	UG/L	0.217 U	0.200 U	NA	NA	NA
Aroclor 1254	UG/L	0.217 U	0.200 U	NA	NA	NA
Aroclor 1260	UG/L	0.217 U	0.200 U	NA	NA	NA
Aroclor 1262	UG/L	0.217 U	0.200 U	NA	NA	NA
Aroclor 1268	UG/L	0.217 U	0.200 U	NA	NA	NA
Dissolved Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.220 U	0.194 U	NA	NA	NA
Aroclor 1221	UG/L	0.220 U	0.194 U	NA	NA	NA
Aroclor 1232	UG/L	0.220 U	0.194 U	NA	NA	NA
Aroclor 1242	UG/L	0.220 U	0.194 U	NA	NA	NA
Aroclor 1248	UG/L	0.220 U	0.194 U	NA	NA	NA

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-38	MW-44	MW-45	MW-48	MW-50
Sample ID		MW-38	MW-44	MW-45	MW-48	MW-50
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/09/17	11/10/17	11/14/17	11/13/17	11/13/17
Parameter	Units					
Dissolved Polychlorinated Biphenyls						
Aroclor 1254	UG/L	0.220 U	0.194 U	NA	NA	NA
Aroclor 1260	UG/L	0.220 U	0.194 U	NA	NA	NA
Aroclor 1262	UG/L	0.220 U	0.194 U	NA	NA	NA
Aroclor 1268	UG/L	0.220 U	0.194 U	NA	NA	NA

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-57	MW-58	MW-66	MW-69	MW-70
Sample ID		MW-57	MW-58	MW-66	MW-69	MW-70
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/13/17	11/13/17	11/13/17	11/10/17	11/10/17
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	26.6	1.00 U
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
1,2,4-Trimethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
1,2-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
1,2-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	88.3	26.5	185 D	86.6	1.00 U
1,2-Dichloroethene (trans)	UG/L	0.45 J	0.44 J	1.65	11.0	1.00 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
1,3-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
1,4-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	20.0 U	400 U	16.2 J
Acetone	UG/L	10.0 U	10.0 U	10.0 U	R	R
Benzene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Carbon tetrachloride	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Chlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Chloroform	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Ethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	2.00 U	2.00 U	2.00 U	R	R
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Methylene chloride	UG/L	2.00 U	2.00 U	2.00 U	40.0 UJ	2.00 UJ
n-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
n-Propylbenzene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-57	MW-58	MW-66	MW-69	MW-70
Sample ID		MW-57	MW-58	MW-66	MW-69	MW-70
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/13/17	11/13/17	11/13/17	11/10/17	11/10/17
Parameter	Units					
Volatile Organic Compounds						
sec-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
tert-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Tetrachloroethene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Toluene	UG/L	1.00 U	1.00 U	1.00 U	20.0 U	1.00 U
Trichloroethene	UG/L	1.77	5.03	1.00 U	1,060	1.00 U
Vinyl chloride	UG/L	37.5	8.20	21.4	42.6	1.00 U
Xylene (total)	UG/L	3.00 U	3.00 U	3.00 U	60.0 U	3.00 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Aroclor 1262	UG/L	NA	NA	NA	NA	NA
Aroclor 1268	UG/L	NA	NA	NA	NA	NA
Dissolved Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-57	MW-58	MW-66	MW-69	MW-70
Sample ID		MW-57	MW-58	MW-66	MW-69	MW-70
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/13/17	11/13/17	11/13/17	11/10/17	11/10/17
Parameter	Units					
Dissolved Polychlorinated Biphenyls						
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Aroclor 1262	UG/L	NA	NA	NA	NA	NA
Aroclor 1268	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-71	MW-75	MW-76	MW-77	MW-79
Sample ID		MW-71	MW-75	MW-76	MW-77	MW-79
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/09/17	11/10/17	11/10/17	11/10/17	11/13/17
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trimethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	67.7	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene (trans)	UG/L	4.05	1.00 U	1.00 U	1.00 U	1.00 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Acetone	UG/L	1.60 J	R	1.97 J	R	10.0 U
Benzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Carbon tetrachloride	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform	UG/L	1.00 U	0.51 J	1.00 U	1.00 U	1.00 U
Ethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	2.00 U	R	2.00 U	R	2.00 U
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methylene chloride	UG/L	2.00 U	2.00 UJ	2.00 U	2.00 UJ	2.00 U
n-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
n-Propylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-71	MW-75	MW-76	MW-77	MW-79
Sample ID		MW-71	MW-75	MW-76	MW-77	MW-79
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/09/17	11/10/17	11/10/17	11/10/17	11/13/17
Parameter	Units					
Volatile Organic Compounds						
sec-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
tert-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrachloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichloroethene	UG/L	89.3 D	0.96 J	1.00 U	1.00 U	1.00 U
Vinyl chloride	UG/L	8.79	1.00 U	1.00 U	1.00 U	1.00 U
Xylene (total)	UG/L	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Aroclor 1262	UG/L	NA	NA	NA	NA	NA
Aroclor 1268	UG/L	NA	NA	NA	NA	NA
Dissolved Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-71	MW-75	MW-76	MW-77	MW-79
Sample ID		MW-71	MW-75	MW-76	MW-77	MW-79
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/09/17	11/10/17	11/10/17	11/10/17	11/13/17
Parameter	Units					
Dissolved Polychlorinated Biphenyls						
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Aroclor 1262	UG/L	NA	NA	NA	NA	NA
Aroclor 1268	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-84	MW-84	TR3-MW-02	TR3-PW-01	TR3-PW-01
Sample ID		FD-111017	MW-84	TR3-MW-02	FD-111317	TR3-PW-01
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/10/17	11/10/17	11/13/17	11/13/17	11/13/17
Parameter	Units	Field Duplicate (1-1)			Field Duplicate (1-1)	
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
1,2,4-Trimethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
1,2-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
1,2-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
1,2-Dichloroethene (cis)	UG/L	0.57 J	0.78 J	1.00 U	24,700	24,300 D
1,2-Dichloroethene (trans)	UG/L	1.11	1.41	1.00 U	2,000 U	2,000 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
1,3-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
1,4-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	20.0 U	40,000 U	40,000 U
Acetone	UG/L	R	R	8.58 J	20,000 U	20,000 U
Benzene	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
Carbon tetrachloride	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
Chlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
Chloroform	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
Ethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	1.25 J	4,000 U	4,000 U
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
Methylene chloride	UG/L	2.00 UJ	2.00 UJ	2.00 U	4,000 U	4,000 U
n-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
n-Propylbenzene	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-84	MW-84	TR3-MW-02	TR3-PW-01	TR3-PW-01
Sample ID		FD-111017	MW-84	TR3-MW-02	FD-111317	TR3-PW-01
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/10/17	11/10/17	11/13/17	11/13/17	11/13/17
Parameter	Units	Field Duplicate (1-1)			Field Duplicate (1-1)	
Volatile Organic Compounds						
sec-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
tert-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
Tetrachloroethene	UG/L	2.43	3.30	1.00 U	2,000 U	2,000 U
Toluene	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
Trichloroethene	UG/L	6.41	8.26	1.00 U	134,000	137,000 D
Vinyl chloride	UG/L	1.00 U	1.00 U	1.00 U	2,000 U	2,000 U
Xylene (total)	UG/L	3.00 U	3.00 U	3.00 U	6,000 U	6,000 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Aroclor 1262	UG/L	NA	NA	NA	NA	NA
Aroclor 1268	UG/L	NA	NA	NA	NA	NA
Dissolved Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULT
UTC/CARRIER SITE

Location ID		MW-84	MW-84	TR3-MW-02	TR3-PW-01	TR3-PW-01
Sample ID		FD-111017	MW-84	TR3-MW-02	FD-111317	TR3-PW-01
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/10/17	11/10/17	11/13/17	11/13/17	11/13/17
Parameter	Units	Field Duplicate (1-1)			Field Duplicate (1-1)	
Dissolved Polychlorinated Biphenyls						
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Aroclor 1262	UG/L	NA	NA	NA	NA	NA
Aroclor 1268	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
UTC/CARRIER SITE

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-110917	TB-111017	TB-111317	TB-111417
Matrix		Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-
Date Sampled		11/09/17	11/10/17	11/13/17	11/14/17
Parameter	Units	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds					
1,1,1-Trichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
1,2,4-Trimethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene (trans)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
1,3-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dichlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	20.0 U	20.0 U
Acetone	UG/L	R	R	10.0 U	10.0 U
Benzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
Carbon tetrachloride	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
Chlorobenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
Ethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	R	R	2.00 U	2.00 U
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
Methylene chloride	UG/L	2.00 UJ	2.00 UJ	2.00 U	2.00 U
n-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
n-Propylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
UTC/CARRIER SITE

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-110917	TB-111017	TB-111317	TB-111417
Matrix		Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-
Date Sampled		11/09/17	11/10/17	11/13/17	11/14/17
Parameter	Units	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds					
sec-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
tert-Butylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
Tetrachloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
Toluene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
Trichloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
Vinyl chloride	UG/L	1.00 U	1.00 U	1.00 U	1.00 U
Xylene (total)	UG/L	3.00 U	3.00 U	3.00 U	3.00 U

Flags assigned during chemistry validation are shown.

MADE BY: AMK 12/19/17
CHECKED BY: PRF 1/5/18

Detection Limits shown are PQL

ATTACHMENT A
FORM 1s

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

AR-MW-02

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-03	File ID:	4158203.D		
Sampled:	11/13/17 11:35	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 01:10		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	1.88	0.80	10.0	J
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

AR-MW-06

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-01	File ID:	4158201.D		
Sampled:	11/13/17 10:48	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 00:12		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	1.65	0.80	10.0	J
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	6.78	0.33	1.00	
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	4.75	0.50	1.00	
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	0.50	0.47	1.00	J
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

DP-MW-04

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-14	File ID:	4158214.D		
Sampled:	11/14/17 08:10	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 06:26		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-03D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-02	File ID:	4149202.D		
Sampled:	11/09/17 08:33	Prepared:	11/20/17 09:57	Analyzed:	11/21/17 06:29		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719512	Sequence:	S710218	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	0.34	0.32	1.00	J
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	9.78	0.33	1.00	
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-03S

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-01	File ID:	4149201.D		
Sampled:	11/09/17 08:20	Prepared:	11/20/17 09:57	Analyzed:	11/21/17 06:00		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719512	Sequence:	S710218	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	10				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	100	8.04	100	U
71-43-2	Benzene	10.0	2.84	10.0	U
78-93-3	2-Butanone (MEK)	20.0	10.7	20.0	U
104-51-8	n-Butylbenzene	10.0	4.12	10.0	U
135-98-8	sec-Butylbenzene	10.0	3.26	10.0	U
98-06-6	tert-Butylbenzene	10.0	3.15	10.0	U
56-23-5	Carbon tetrachloride	10.0	4.37	10.0	U
108-90-7	Chlorobenzene	10.0	2.49	10.0	U
67-66-3	Chloroform	10.0	3.26	10.0	U
95-50-1	1,2-Dichlorobenzene	10.0	2.77	10.0	U
541-73-1	1,3-Dichlorobenzene	10.0	3.14	10.0	U
106-46-7	1,4-Dichlorobenzene	10.0	2.72	10.0	U
75-34-3	1,1-Dichloroethane	20.4	3.23	10.0	
107-06-2	1,2-Dichloroethane	10.0	2.77	10.0	U
75-35-4	1,1-Dichloroethene	10.0	6.93	10.0	U
156-59-2	cis-1,2-Dichloroethene	729	3.27	10.0	
156-60-5	trans-1,2-Dichloroethene	10.0	3.77	10.0	U
100-41-4	Ethylbenzene	10.0	3.29	10.0	U
1634-04-4	Methyl tert-butyl ether	10.0	2.37	10.0	U
75-09-2	Methylene chloride	20.0	6.61	20.0	U
103-65-1	n-Propylbenzene	10.0	3.44	10.0	U
127-18-4	Tetrachloroethene	10.0	5.70	10.0	U
108-88-3	Toluene	10.0	2.99	10.0	U
71-55-6	1,1,1-Trichloroethane	10.0	5.09	10.0	U
79-01-6	Trichloroethene	10.0	4.97	10.0	U
95-63-6	1,2,4-Trimethylbenzene	10.0	3.55	10.0	U
108-67-8	1,3,5-Trimethylbenzene	10.0	4.31	10.0	U
75-01-4	Vinyl chloride	55.3	4.72	10.0	
1330-20-7	Total Xylenes	30.0	30.0	30.0	U
123-91-1	1,4-Dioxane	200	114	200	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-09

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Project Number:	60557397			Received:	11/10/17 15:44
Matrix:	Ground Water	Laboratory ID:	SC41492-20	File ID:	4149220.D
Sampled:	11/10/17 14:00	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 06:06
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Batch:	1719533	Sequence:	S710238	Calibration:	1711038
Reported to:	MRL	Dilution:	1		

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U J
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.05	0.51	1.00	
79-01-6	Trichloroethene	2.84	0.50	1.00	
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

DMK 12/12/17

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-10

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-08	File ID:	4149208.D		
Sampled:	11/09/17 15:35	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 01:05		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	0.31	0.24	1.00	J
75-09-2	Methylene chloride	2.00	0.66	2.00	U J
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

12/12/17

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-14

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-08	File ID:	4158208.D		
Sampled:	11/13/17 14:20	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 03:34		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	1.43	0.80	10.0	J
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-17

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-12	File ID:	4149212.D		
Sampled:	11/10/17 08:35	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 02:06		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	~~U~~ R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	~~U~~ R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	0.33	0.24	1.00	J
75-09-2	Methylene chloride	2.00	0.66	2.00	U J
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-18

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-06	File ID:	4158206.D		
Sampled:	11/13/17 13:10	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 02:36		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	100				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	1000	80.4	1000	U
71-43-2	Benzene	100	28.4	100	U
78-93-3	2-Butanone (MEK)	200	107	200	U
104-51-8	n-Butylbenzene	100	41.2	100	U
135-98-8	sec-Butylbenzene	100	32.6	100	U
98-06-6	tert-Butylbenzene	100	31.5	100	U
56-23-5	Carbon tetrachloride	100	43.7	100	U
108-90-7	Chlorobenzene	100	24.9	100	U
67-66-3	Chloroform	100	32.6	100	U
95-50-1	1,2-Dichlorobenzene	100	27.7	100	U
541-73-1	1,3-Dichlorobenzene	100	31.4	100	U
106-46-7	1,4-Dichlorobenzene	100	27.2	100	U
75-34-3	1,1-Dichloroethane	51.0	32.3	100	J
107-06-2	1,2-Dichloroethane	100	27.7	100	U
75-35-4	1,1-Dichloroethene	100	69.3	100	U
156-59-2	cis-1,2-Dichloroethene	6640	32.7	100	
156-60-5	trans-1,2-Dichloroethene	38.0	37.7	100	J
100-41-4	Ethylbenzene	100	32.9	100	U
1634-04-4	Methyl tert-butyl ether	100	23.7	100	U
75-09-2	Methylene chloride	200	66.1	200	U
103-65-1	n-Propylbenzene	100	34.4	100	U
127-18-4	Tetrachloroethene	100	57.0	100	U
108-88-3	Toluene	100	29.9	100	U
71-55-6	1,1,1-Trichloroethane	100	50.9	100	U
79-01-6	Trichloroethene	3950	49.7	100	
95-63-6	1,2,4-Trimethylbenzene	100	35.5	100	U
108-67-8	1,3,5-Trimethylbenzene	100	43.1	100	U
75-01-4	Vinyl chloride	1840	47.2	100	
1330-20-7	Total Xylenes	300	300	300	U
123-91-1	1,4-Dioxane	2000	1140	2000	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-19

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-09	File ID:	4149209.D		
Sampled:	11/09/17 16:07	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 01:36		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U J
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.25	0.50	1.00	
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

12/12/17

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-21

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-13	File ID:	4149213.D		
Sampled:	11/10/17 08:39	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 02:36		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.04	0.33	1.00	
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U J
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	5.23	0.50	1.00	
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

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FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-23

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-06	File ID:	4149206.D		
Sampled:	11/09/17 14:42	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 00:05		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	100				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	1000	80.4	1000	U R
71-43-2	Benzene	100	28.4	100	U
78-93-3	2-Butanone (MEK)	200	107	200	U R
104-51-8	n-Butylbenzene	100	41.2	100	U
135-98-8	sec-Butylbenzene	100	32.6	100	U
98-06-6	tert-Butylbenzene	100	31.5	100	U
56-23-5	Carbon tetrachloride	100	43.7	100	U
108-90-7	Chlorobenzene	100	24.9	100	U
67-66-3	Chloroform	100	32.6	100	U
95-50-1	1,2-Dichlorobenzene	100	27.7	100	U
541-73-1	1,3-Dichlorobenzene	100	31.4	100	U
106-46-7	1,4-Dichlorobenzene	100	27.2	100	U
75-34-3	1,1-Dichloroethane	261	32.3	100	
107-06-2	1,2-Dichloroethane	100	27.7	100	U
75-35-4	1,1-Dichloroethene	100	69.3	100	U
156-59-2	cis-1,2-Dichloroethene	4020	32.7	100	
156-60-5	trans-1,2-Dichloroethene	100	37.7	100	U
100-41-4	Ethylbenzene	50.0	32.9	100	J
1634-04-4	Methyl tert-butyl ether	100	23.7	100	U
75-09-2	Methylene chloride	200	66.1	200	U J
103-65-1	n-Propylbenzene	100	34.4	100	U
127-18-4	Tetrachloroethene	100	57.0	100	U
108-88-3	Toluene	87.0	29.9	100	J
71-55-6	1,1,1-Trichloroethane	97.0	50.9	100	J
79-01-6	Trichloroethene	318	49.7	100	
95-63-6	1,2,4-Trimethylbenzene	100	35.5	100	U
108-67-8	1,3,5-Trimethylbenzene	100	43.1	100	U
75-01-4	Vinyl chloride	227	47.2	100	
1330-20-7	Total Xylenes	300	300	300	U
123-91-1	1,4-Dioxane	2000	1140	2000	U

12/12/17

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

FD-110917

MW-23

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Water Field QC	Laboratory ID:	SC41492-07	File ID:	4149207.D		
Sampled:	11/09/17 00:00	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 00:35		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	100				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	1000	80.4	1000	U R
71-43-2	Benzene	100	28.4	100	U
78-93-3	2-Butanone (MEK)	200	107	200	U R
104-51-8	n-Butylbenzene	100	41.2	100	U
135-98-8	sec-Butylbenzene	100	32.6	100	U
98-06-6	tert-Butylbenzene	100	31.5	100	U
56-23-5	Carbon tetrachloride	100	43.7	100	U
108-90-7	Chlorobenzene	100	24.9	100	U
67-66-3	Chloroform	100	32.6	100	U
95-50-1	1,2-Dichlorobenzene	100	27.7	100	U
541-73-1	1,3-Dichlorobenzene	100	31.4	100	U
106-46-7	1,4-Dichlorobenzene	100	27.2	100	U
75-34-3	1,1-Dichloroethane	271	32.3	100	
107-06-2	1,2-Dichloroethane	100	27.7	100	U
75-35-4	1,1-Dichloroethene	100	69.3	100	U
156-59-2	cis-1,2-Dichloroethene	5970	32.7	100	
156-60-5	trans-1,2-Dichloroethene	100	37.7	100	U
100-41-4	Ethylbenzene	100	32.9	100	U
1634-04-4	Methyl tert-butyl ether	100	23.7	100	U
75-09-2	Methylene chloride	200	66.1	200	U J
103-65-1	n-Propylbenzene	100	34.4	100	U
127-18-4	Tetrachloroethene	100	57.0	100	U
108-88-3	Toluene	81.0	29.9	100	J
71-55-6	1,1,1-Trichloroethane	79.0	50.9	100	J
79-01-6	Trichloroethene	491	49.7	100	
95-63-6	1,2,4-Trimethylbenzene	100	35.5	100	U
108-67-8	1,3,5-Trimethylbenzene	100	43.1	100	U
75-01-4	Vinyl chloride	233	47.2	100	
1330-20-7	Total Xylenes	300	300	300	U
123-91-1	1,4-Dioxane	2000	1140	2000	U

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FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-26

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-03	File ID:	4149203.D		
Sampled:	11/09/17 11:20	Prepared:	11/20/17 09:57	Analyzed:	11/21/17 06:58		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719512	Sequence:	S710218	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	0.52	0.32	1.00	J
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.13	0.57	1.00	
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.17	0.51	1.00	
79-01-6	Trichloroethene	8.17	0.50	1.00	
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-38

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-04	File ID:	4149204.D		
Sampled:	11/09/17 11:50	Prepared:	11/20/17 13:39	Analyzed:	11/20/17 23:05		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	8.12	0.33	1.00	
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U J
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	21.0	0.50	1.00	
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

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FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-44

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-15	File ID:	4149215.D		
Sampled:	11/10/17 10:25	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 03:36		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	~~U~~ R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	~~U~~ R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U J
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.41	0.51	1.00	
79-01-6	Trichloroethene	4.99	0.50	1.00	
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

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FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-45

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-15	File ID:	4158215.D		
Sampled:	11/14/17 08:55	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 06:54		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	5				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	50.0	4.02	50.0	U
71-43-2	Benzene	5.00	1.42	5.00	U
78-93-3	2-Butanone (MEK)	10.0	5.35	10.0	U
104-51-8	n-Butylbenzene	5.00	2.06	5.00	U
135-98-8	sec-Butylbenzene	5.00	1.63	5.00	U
98-06-6	tert-Butylbenzene	5.00	1.58	5.00	U
56-23-5	Carbon tetrachloride	5.00	2.18	5.00	U
108-90-7	Chlorobenzene	5.00	1.24	5.00	U
67-66-3	Chloroform	5.00	1.63	5.00	U
95-50-1	1,2-Dichlorobenzene	5.00	1.38	5.00	U
541-73-1	1,3-Dichlorobenzene	5.00	1.57	5.00	U
106-46-7	1,4-Dichlorobenzene	5.00	1.36	5.00	U
75-34-3	1,1-Dichloroethane	5.00	1.62	5.00	U
107-06-2	1,2-Dichloroethane	5.00	1.38	5.00	U
75-35-4	1,1-Dichloroethene	5.00	3.46	5.00	U
156-59-2	cis-1,2-Dichloroethene	26.2	1.64	5.00	
156-60-5	trans-1,2-Dichloroethene	6.05	1.88	5.00	
100-41-4	Ethylbenzene	5.00	1.64	5.00	U
1634-04-4	Methyl tert-butyl ether	5.00	1.18	5.00	U
75-09-2	Methylene chloride	10.0	3.30	10.0	U
103-65-1	n-Propylbenzene	5.00	1.72	5.00	U
127-18-4	Tetrachloroethene	5.00	2.85	5.00	U
108-88-3	Toluene	5.00	1.50	5.00	U
71-55-6	1,1,1-Trichloroethane	5.00	2.54	5.00	U
79-01-6	Trichloroethene	226	2.48	5.00	
95-63-6	1,2,4-Trimethylbenzene	5.00	1.78	5.00	U
108-67-8	1,3,5-Trimethylbenzene	5.00	2.16	5.00	U
75-01-4	Vinyl chloride	5.00	2.36	5.00	U
1330-20-7	Total Xylenes	15.0	15.0	15.0	U
123-91-1	1,4-Dioxane	100	57.0	100	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-48

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-02	File ID:	4158202.D		
Sampled:	11/13/17 11:08	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 00:41		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	0.88	0.80	10.0	J
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	0.96	0.32	1.00	J
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	5.12	0.33	1.00	
156-60-5	trans-1,2-Dichloroethene	0.45	0.38	1.00	J
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	10.7	0.50	1.00	
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-50

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-07	File ID:	4158207.D		
Sampled:	11/13/17 13:45	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 03:05		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.70	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.90	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-57

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-13	File ID:	4158213.D		
Sampled:	11/13/17 17:10	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 05:57		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	88.3	0.33	1.00	
156-60-5	trans-1,2-Dichloroethene	0.45	0.38	1.00	J
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.77	0.50	1.00	
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	37.5	0.47	1.00	
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-58

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-09	File ID:	4158209.D		
Sampled:	11/13/17 15:10	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 04:02		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	26.5	0.33	1.00	
156-60-5	trans-1,2-Dichloroethene	0.44	0.38	1.00	J
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	5.03	0.50	1.00	
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	8.20	0.47	1.00	
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-66

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-11	File ID:	4158211.D		
Sampled:	11/13/17 16:00	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 04:59		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	185 ~~209~~	0.33	1.00	E D
156-60-5	trans-1,2-Dichloroethene	1.65	0.38	1.00	
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	21.4	0.47	1.00	
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

11/24/17

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-66

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-11RE1	File ID:	4158211RE1.D		
Sampled:	11/13/17 16:00	Prepared:	11/27/17 10:01	Analyzed:	11/27/17 13:44		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719759	Sequence:	S710339	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	5				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
156-59-2	cis-1,2-Dichloroethene	185	1.64	5.00	D

12/4/17

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-69

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-19	File ID:	4149219.D		
Sampled:	11/10/17 13:40	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 05:36		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	20				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	200	16.1	200	~~U~~ R
71-43-2	Benzene	20.0	5.68	20.0	U
78-93-3	2-Butanone (MEK)	40.0	21.4	40.0	~~U~~ R
104-51-8	n-Butylbenzene	20.0	8.24	20.0	U
135-98-8	sec-Butylbenzene	20.0	6.52	20.0	U
98-06-6	tert-Butylbenzene	20.0	6.30	20.0	U
56-23-5	Carbon tetrachloride	20.0	8.74	20.0	U
108-90-7	Chlorobenzene	20.0	4.98	20.0	U
67-66-3	Chloroform	20.0	6.52	20.0	U
95-50-1	1,2-Dichlorobenzene	20.0	5.54	20.0	U
541-73-1	1,3-Dichlorobenzene	20.0	6.28	20.0	U
106-46-7	1,4-Dichlorobenzene	20.0	5.44	20.0	U
75-34-3	1,1-Dichloroethane	26.6	6.46	20.0	
107-06-2	1,2-Dichloroethane	20.0	5.54	20.0	U
75-35-4	1,1-Dichloroethene	20.0	13.9	20.0	U
156-59-2	cis-1,2-Dichloroethene	86.6	6.54	20.0	
156-60-5	trans-1,2-Dichloroethene	11.0	7.54	20.0	J
100-41-4	Ethylbenzene	20.0	6.58	20.0	U
1634-04-4	Methyl tert-butyl ether	20.0	4.74	20.0	U
75-09-2	Methylene chloride	40.0	13.2	40.0	U J
103-65-1	n-Propylbenzene	20.0	6.88	20.0	U
127-18-4	Tetrachloroethene	20.0	11.4	20.0	U
108-88-3	Toluene	20.0	5.98	20.0	U
71-55-6	1,1,1-Trichloroethane	20.0	10.2	20.0	U
79-01-6	Trichloroethene	1060	9.94	20.0	
95-63-6	1,2,4-Trimethylbenzene	20.0	7.10	20.0	U
108-67-8	1,3,5-Trimethylbenzene	20.0	8.62	20.0	U
75-01-4	Vinyl chloride	42.6	9.44	20.0	
1330-20-7	Total Xylenes	60.0	60.0	60.0	U
123-91-1	1,4-Dioxane	400	228	400	U

12/12/17

FORM I - ORGANIC ANALYSIS DATA SHEET
SW846 8260C

MW-70

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-14	File ID:	4149214.D		
Sampled:	11/10/17 09:50	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 03:06		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U J
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	16.2	11.4	20.0	J

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-71

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-05	File ID:	4149205.D		
Sampled:	11/09/17 14:40	Prepared:	11/21/17 10:43	Analyzed:	11/21/17 14:21		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719593	Sequence:	S710257	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	1.60	0.80	10.0	J
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	67.7	0.33	1.00	
156-60-5	trans-1,2-Dichloroethene	4.05	0.38	1.00	
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	~~113~~ 89.3	0.50	1.00	~~E~~ D
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	8.79	0.47	1.00	
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

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FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-71

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-05RE1	File ID:	4149205.D		
Sampled:	11/09/17 14:40	Prepared:	11/20/17 13:39	Analyzed:	11/20/17 23:35		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	5				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
79-01-6	Trichloroethene	89.3	2.48	5.00	D

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FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-75

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-16	File ID:	4149216.D		
Sampled:	11/10/17 11:37	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 04:06		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	~~U~~ R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	~~U~~ R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	0.51	0.33	1.00	J
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U J
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	0.96	0.50	1.00	J
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

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FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-76

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-22	File ID:	4149222.D		
Sampled:	11/10/17 15:25	Prepared:	11/21/17 10:43	Analyzed:	11/21/17 15:20		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719593	Sequence:	S710257	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	1.97	0.80	10.0	J
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-77

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-21	File ID:	4149221.D		
Sampled:	11/10/17 14:55	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 06:37		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U J
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

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FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-79

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-12	File ID:	4158212.D		
Sampled:	11/13/17 16:03	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 05:28		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.55	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

MW-84

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-17	File ID:	4149217.D		
Sampled:	11/10/17 11:46	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 04:36		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	0.78	0.33	1.00	J
156-60-5	trans-1,2-Dichloroethene	1.41	0.38	1.00	
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U J
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	3.30	0.57	1.00	
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	8.26	0.50	1.00	
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

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FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

FD-111017

MW-84

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Water Field QC	Laboratory ID:	SC41492-18	File ID:	4149218.D		
Sampled:	11/10/17 00:00	Prepared:	11/20/17 13:39	Analyzed:	11/21/17 05:06		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	~~U~~ R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	~~U~~ R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	0.57	0.33	1.00	J
156-60-5	trans-1,2-Dichloroethene	1.11	0.38	1.00	
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U ~~J~~
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	2.43	0.57	1.00	
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	6.41	0.50	1.00	
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

12/21/17

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TR3-MW-02

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Ground Water	Laboratory ID:	SC41582-10	File ID:	4158210.D		
Sampled:	11/13/17 15:22	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 04:31		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	8.58	0.80	10.0	J
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	1.25	1.07	2.00	J
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TR3-PW-01

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Project Number:	60557397			Received:	11/14/17 12:15
Matrix:	Ground Water	Laboratory ID:	SC41582-04	File ID:	4158204.D
Sampled:	11/13/17 12:35	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 01:39
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Batch:	1719671	Sequence:	S710303	Calibration:	1711037
Reported to:	MRL	Dilution:	2000		

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	20000	1610	20000	U
71-43-2	Benzene	2000	568	2000	U
78-93-3	2-Butanone (MEK)	4000	2140	4000	U
104-51-8	n-Butylbenzene	2000	824	2000	U
135-98-8	sec-Butylbenzene	2000	652	2000	U
98-06-6	tert-Butylbenzene	2000	630	2000	U
56-23-5	Carbon tetrachloride	2000	874	2000	U
108-90-7	Chlorobenzene	2000	498	2000	U
67-66-3	Chloroform	2000	652	2000	U
95-50-1	1,2-Dichlorobenzene	2000	554	2000	U
541-73-1	1,3-Dichlorobenzene	2000	628	2000	U
106-46-7	1,4-Dichlorobenzene	2000	544	2000	U
75-34-3	1,1-Dichloroethane	2000	646	2000	U
107-06-2	1,2-Dichloroethane	2000	554	2000	U
75-35-4	1,1-Dichloroethene	2000	1390	2000	U
156-59-2	cis-1,2-Dichloroethene	24300	654	2000	D
156-60-5	trans-1,2-Dichloroethene	2000	754	2000	U
100-41-4	Ethylbenzene	2000	658	2000	U
1634-04-4	Methyl tert-butyl ether	2000	474	2000	U
75-09-2	Methylene chloride	4000	1320	4000	U
103-65-1	n-Propylbenzene	2000	688	2000	U
127-18-4	Tetrachloroethene	2000	1140	2000	U
108-88-3	Toluene	2000	598	2000	U
71-55-6	1,1,1-Trichloroethane	2000	1020	2000	U
79-01-6	Trichloroethene	137000	994	2000	D
95-63-6	1,2,4-Trimethylbenzene	2000	710	2000	U
108-67-8	1,3,5-Trimethylbenzene	2000	862	2000	U
75-01-4	Vinyl chloride	2000	944	2000	U
1330-20-7	Total Xylenes	6000	6000	6000	U
123-91-1	1,4-Dioxane	40000	22800	40000	U

11/24/17

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

FD-111317

TR3-GW-01

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Water Field QC	Laboratory ID:	SC41582-05	File ID:	4158205.D		
Sampled:	11/13/17 00:00	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 02:08		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	2000				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	20000	1610	20000	U
71-43-2	Benzene	2000	568	2000	U
78-93-3	2-Butanone (MEK)	4000	2140	4000	U
104-51-8	n-Butylbenzene	2000	824	2000	U
135-98-8	sec-Butylbenzene	2000	652	2000	U
98-06-6	tert-Butylbenzene	2000	630	2000	U
56-23-5	Carbon tetrachloride	2000	874	2000	U
108-90-7	Chlorobenzene	2000	498	2000	U
67-66-3	Chloroform	2000	652	2000	U
95-50-1	1,2-Dichlorobenzene	2000	554	2000	U
541-73-1	1,3-Dichlorobenzene	2000	628	2000	U
106-46-7	1,4-Dichlorobenzene	2000	544	2000	U
75-34-3	1,1-Dichloroethane	2000	646	2000	U
107-06-2	1,2-Dichloroethane	2000	554	2000	U
75-35-4	1,1-Dichloroethene	2000	1390	2000	U
156-59-2	cis-1,2-Dichloroethene	24700	654	2000	
156-60-5	trans-1,2-Dichloroethene	2000	754	2000	U
100-41-4	Ethylbenzene	2000	658	2000	U
1634-04-4	Methyl tert-butyl ether	2000	474	2000	U
75-09-2	Methylene chloride	4000	1320	4000	U
103-65-1	n-Propylbenzene	2000	688	2000	U
127-18-4	Tetrachloroethene	2000	1140	2000	U
108-88-3	Toluene	2000	598	2000	U
71-55-6	1,1,1-Trichloroethane	2000	1020	2000	U
79-01-6	Trichloroethene	134000	994	2000	
95-63-6	1,2,4-Trimethylbenzene	2000	710	2000	U
108-67-8	1,3,5-Trimethylbenzene	2000	862	2000	U
75-01-4	Vinyl chloride	2000	944	2000	U
1330-20-7	Total Xylenes	6000	6000	6000	U
123-91-1	1,4-Dioxane	40000	22800	40000	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TB-110917

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Water Field QC	Laboratory ID:	SC41492-10	File ID:	4149210.D		
Sampled:	11/09/17 00:00	Prepared:	11/20/17 13:39	Analyzed:	11/20/17 22:05		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U J
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

12/2/17

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TB-111017

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Water Field QC	Laboratory ID:	SC41492-11	File ID:	4149211.D		
Sampled:	11/10/17 00:00	Prepared:	11/20/17 13:39	Analyzed:	11/20/17 22:35		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719533	Sequence:	S710238	Calibration:	1711038	Instrument:	HPV1
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	~~U~~ R
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	~~U~~ R
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U J
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

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FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TB-111317

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Water Field QC	Laboratory ID:	SC41582-16	File ID:	4158216.D		
Sampled:	11/13/17 00:00	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 07:23		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TB-111417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41582		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/14/17 12:15		
Matrix:	Water Field QC	Laboratory ID:	SC41582-17	File ID:	4158217.D		
Sampled:	11/14/17 00:00	Prepared:	11/22/17 09:19	Analyzed:	11/23/17 07:52		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1719671	Sequence:	S710303	Calibration:	1711037	Instrument:	HPV7
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
67-64-1	Acetone	10.0	0.80	10.0	U
71-43-2	Benzene	1.00	0.28	1.00	U
78-93-3	2-Butanone (MEK)	2.00	1.07	2.00	U
104-51-8	n-Butylbenzene	1.00	0.41	1.00	U
135-98-8	sec-Butylbenzene	1.00	0.33	1.00	U
98-06-6	tert-Butylbenzene	1.00	0.32	1.00	U
56-23-5	Carbon tetrachloride	1.00	0.44	1.00	U
108-90-7	Chlorobenzene	1.00	0.25	1.00	U
67-66-3	Chloroform	1.00	0.33	1.00	U
95-50-1	1,2-Dichlorobenzene	1.00	0.28	1.00	U
541-73-1	1,3-Dichlorobenzene	1.00	0.31	1.00	U
106-46-7	1,4-Dichlorobenzene	1.00	0.27	1.00	U
75-34-3	1,1-Dichloroethane	1.00	0.32	1.00	U
107-06-2	1,2-Dichloroethane	1.00	0.28	1.00	U
75-35-4	1,1-Dichloroethene	1.00	0.69	1.00	U
156-59-2	cis-1,2-Dichloroethene	1.00	0.33	1.00	U
156-60-5	trans-1,2-Dichloroethene	1.00	0.38	1.00	U
100-41-4	Ethylbenzene	1.00	0.33	1.00	U
1634-04-4	Methyl tert-butyl ether	1.00	0.24	1.00	U
75-09-2	Methylene chloride	2.00	0.66	2.00	U
103-65-1	n-Propylbenzene	1.00	0.34	1.00	U
127-18-4	Tetrachloroethene	1.00	0.57	1.00	U
108-88-3	Toluene	1.00	0.30	1.00	U
71-55-6	1,1,1-Trichloroethane	1.00	0.51	1.00	U
79-01-6	Trichloroethene	1.00	0.50	1.00	U
95-63-6	1,2,4-Trimethylbenzene	1.00	0.36	1.00	U
108-67-8	1,3,5-Trimethylbenzene	1.00	0.43	1.00	U
75-01-4	Vinyl chloride	1.00	0.47	1.00	U
1330-20-7	Total Xylenes	3.00	3.00	3.00	U
123-91-1	1,4-Dioxane	20.0	11.4	20.0	U

FORM I - ANALYSIS DATA SHEET

SW846 8082A

MW-19

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Project Number:	60557397			Received:	11/10/17 15:44
Matrix:	Ground Water	Laboratory ID:	SC41492-09	File ID:	4149209.D
Sampled:	11/09/17 16:07	Prepared:	11/15/17 12:54	Analyzed:	11/17/17 20:25
% Solids:		Preparation:	SW846 3510C	Initial/Final:	960 ml / 10 ml
Batch:	1719317	Sequence:	S710242	Calibration:	1710016
Instrument:	HPS11				
Injection Volume (uL):	2.00				
Reported to:	MRL	Dilution:	1		

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
12674-11-2	Aroclor-1016	0.208	0.108	0.208	U
11104-28-2	Aroclor-1221	0.208	0.120	0.208	U
11141-16-5	Aroclor-1232	0.208	0.116	0.208	U
53469-21-9	Aroclor-1242	0.208	0.112	0.208	U
12672-29-6	Aroclor-1248	0.208	0.142	0.208	U
11097-69-1	Aroclor-1254	0.208	0.121	0.208	U
11096-82-5	Aroclor-1260	0.208	0.0886	0.208	U
37324-23-5	Aroclor-1262	0.208	0.0933	0.208	U
11100-14-4	Aroclor-1268	0.208	0.0953	0.208	U

FORM I - ANALYSIS DATA SHEET

SW846 8082A

MW-19-F

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-27	File ID:	4149227.D		
Sampled:	11/09/17 16:07	Prepared:	11/15/17 12:54	Analyzed:	11/17/17 21:58		
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1010 ml / 10 ml		
Batch:	1719317	Sequence:	S710242	Calibration:	1710016	Instrument:	HPS11
Injection Volume (uL):	2.00						
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
12674-11-2	Aroclor-1016	0.198	0.103	0.198	U
11104-28-2	Aroclor-1221	0.198	0.114	0.198	U
11141-16-5	Aroclor-1232	0.198	0.110	0.198	U
53469-21-9	Aroclor-1242	0.198	0.106	0.198	U
12672-29-6	Aroclor-1248	0.198	0.135	0.198	U
11097-69-1	Aroclor-1254	0.198	0.115	0.198	U
11096-82-5	Aroclor-1260	0.198	0.0843	0.198	U
37324-23-5	Aroclor-1262	0.198	0.0887	0.198	U
11100-14-4	Aroclor-1268	0.198	0.0906	0.198	U

FORM I - ANALYSIS DATA SHEET

SW846 8082A

MW-23

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492		
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY		
Project Number:	60557397			Received:	11/10/17 15:44		
Matrix:	Ground Water	Laboratory ID:	SC41492-06	File ID:	4149206.D		
Sampled:	11/09/17 14:42	Prepared:	11/15/17 12:54	Analyzed:	11/17/17 19:23		
% Solids:		Preparation:	SW846 3510C	Initial/Final:	910 ml / 10 ml		
Batch:	1719317	Sequence:	S710242	Calibration:	1710016	Instrument:	HPS11
Injection Volume (uL):	2.00						
Reported to:	MRL	Dilution:	1				

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
12674-11-2	Aroclor-1016	0.220	0.114	0.220	U
11104-28-2	Aroclor-1221	0.220	0.126	0.220	U
11141-16-5	Aroclor-1232	0.220	0.122	0.220	U
53469-21-9	Aroclor-1242	0.220	0.118	0.220	U
12672-29-6	Aroclor-1248	0.220	0.149	0.220	U
11097-69-1	Aroclor-1254	0.220	0.127	0.220	U
11096-82-5	Aroclor-1260	0.220	0.0935	0.220	U
37324-23-5	Aroclor-1262	0.220	0.0985	0.220	U
11100-14-4	Aroclor-1268	0.220	0.101	0.220	U

FORM I - ANALYSIS DATA SHEET

SW846 8082A

MW-23-F

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Project Number:	60557397			Received:	11/10/17 15:44
Matrix:	Ground Water	Laboratory ID:	SC41492-25	File ID:	4149225.D
Sampled:	11/09/17 14:42	Prepared:	11/15/17 12:54	Analyzed:	11/17/17 21:27
% Solids:		Preparation:	SW846 3510C	Initial/Final:	900 ml / 10 ml
Batch:	1719317	Sequence:	S710242	Calibration:	1710016
Instrument:	HPS11				
Injection Volume (uL):	2.00				
Reported to:	MRL	Dilution:	1		

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
12674-11-2	Aroclor-1016	0.222	0.116	0.222	U
11104-28-2	Aroclor-1221	0.222	0.128	0.222	U
11141-16-5	Aroclor-1232	0.222	0.123	0.222	U
53469-21-9	Aroclor-1242	0.222	0.119	0.222	U
12672-29-6	Aroclor-1248	0.222	0.151	0.222	U
11097-69-1	Aroclor-1254	0.222	0.129	0.222	U
11096-82-5	Aroclor-1260	0.222	0.0946	0.222	U
37324-23-5	Aroclor-1262	0.222	0.0996	0.222	U
11100-14-4	Aroclor-1268	0.222	0.102	0.222	U

FORM I - ANALYSIS DATA SHEET

SW846 8082A

FD-110917

MW-23

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Project Number:	60557397			Received:	11/10/17 15:44
Matrix:	Water Field QC	Laboratory ID:	SC41492-07	File ID:	4149207.D
Sampled:	11/09/17 00:00	Prepared:	11/15/17 12:54	Analyzed:	11/17/17 20:10
% Solids:		Preparation:	SW846 3510C	Initial/Final:	910 ml / 10 ml
Batch:	1719317	Sequence:	S710242	Calibration:	1710016
Instrument:	HPS11				
Injection Volume (uL):	2.00				
Reported to:	MRL	Dilution:	1		

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
12674-11-2	Aroclor-1016	0.220	0.114	0.220	U
11104-28-2	Aroclor-1221	0.220	0.126	0.220	U
11141-16-5	Aroclor-1232	0.220	0.122	0.220	U
53469-21-9	Aroclor-1242	0.220	0.118	0.220	U
12672-29-6	Aroclor-1248	0.220	0.149	0.220	U
11097-69-1	Aroclor-1254	0.220	0.127	0.220	U
11096-82-5	Aroclor-1260	0.220	0.0935	0.220	U
37324-23-5	Aroclor-1262	0.220	0.0985	0.220	U
11100-14-4	Aroclor-1268	0.220	0.101	0.220	U

FORM I - ANALYSIS DATA SHEET

SW846 8082A

FD-110917-F

MW-23

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Project Number:	60557397			Received:	11/10/17 15:44
Matrix:	Water Field QC	Laboratory ID:	SC41492-26	File ID:	4149226.D
Sampled:	11/09/17 00:00	Prepared:	11/15/17 12:54	Analyzed:	11/17/17 21:43
% Solids:		Preparation:	SW846 3510C	Initial/Final:	880 ml / 10 ml
Batch:	1719317	Sequence:	S710242	Calibration:	1710016
Instrument:	HPS11				
Injection Volume (uL):	2.00				
Reported to:	MRL	Dilution:	1		

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
12674-11-2	Aroclor-1016	0.227	0.118	0.227	U
11104-28-2	Aroclor-1221	0.227	0.131	0.227	U
11141-16-5	Aroclor-1232	0.227	0.126	0.227	U
53469-21-9	Aroclor-1242	0.227	0.122	0.227	U
12672-29-6	Aroclor-1248	0.227	0.155	0.227	U
11097-69-1	Aroclor-1254	0.227	0.132	0.227	U
11096-82-5	Aroclor-1260	0.227	0.0967	0.227	U
37324-23-5	Aroclor-1262	0.227	0.102	0.227	U
11100-14-4	Aroclor-1268	0.227	0.104	0.227	U

FORM I - ANALYSIS DATA SHEET

SW846 8082A

MW-26

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Project Number:	60557397			Received:	11/10/17 15:44
Matrix:	Ground Water	Laboratory ID:	SC41492-03	File ID:	4149203.D
Sampled:	11/09/17 11:20	Prepared:	11/15/17 12:54	Analyzed:	11/17/17 18:53
% Solids:		Preparation:	SW846 3510C	Initial/Final:	970 ml / 10 ml
Batch:	1719317	Sequence:	S710242	Calibration:	1710016
Instrument:	HPS11				
Injection Volume (uL):	2.00				
Reported to:	MRL	Dilution:	1		

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
12674-11-2	Aroclor-1016	0.206	0.107	0.206	U
11104-28-2	Aroclor-1221	0.206	0.119	0.206	U
11141-16-5	Aroclor-1232	0.206	0.114	0.206	U
53469-21-9	Aroclor-1242	0.206	0.111	0.206	U
12672-29-6	Aroclor-1248	0.206	0.140	0.206	U
11097-69-1	Aroclor-1254	0.206	0.120	0.206	U
11096-82-5	Aroclor-1260	0.206	0.0877	0.206	U
37324-23-5	Aroclor-1262	0.206	0.0924	0.206	U
11100-14-4	Aroclor-1268	0.206	0.0943	0.206	U

FORM I - ANALYSIS DATA SHEET

SW846 8082A

MW-26-F

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Project Number:	60557397			Received:	11/10/17 15:44
Matrix:	Ground Water	Laboratory ID:	SC41492-23	File ID:	4149223.D
Sampled:	11/09/17 11:20	Prepared:	11/15/17 12:54	Analyzed:	11/17/17 20:56
% Solids:		Preparation:	SW846 3510C	Initial/Final:	960 ml / 10 ml
Batch:	1719317	Sequence:	S710242	Calibration:	1710016
Instrument:	HPS11				
Injection Volume (uL):	2.00				
Reported to:	MRL	Dilution:	1		

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
12674-11-2	Aroclor-1016	0.208	0.108	0.208	U
11104-28-2	Aroclor-1221	0.208	0.120	0.208	U
11141-16-5	Aroclor-1232	0.208	0.116	0.208	U
53469-21-9	Aroclor-1242	0.208	0.112	0.208	U
12672-29-6	Aroclor-1248	0.208	0.142	0.208	U
11097-69-1	Aroclor-1254	0.208	0.121	0.208	U
11096-82-5	Aroclor-1260	0.208	0.0886	0.208	U
37324-23-5	Aroclor-1262	0.208	0.0933	0.208	U
11100-14-4	Aroclor-1268	0.208	0.0953	0.208	U

FORM I - ANALYSIS DATA SHEET

SW846 8082A

MW-38

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Project Number:	60557397			Received:	11/10/17 15:44
Matrix:	Ground Water	Laboratory ID:	SC41492-04	File ID:	4149204.D
Sampled:	11/09/17 11:50	Prepared:	11/15/17 12:54	Analyzed:	11/17/17 19:08
% Solids:		Preparation:	SW846 3510C	Initial/Final:	920 ml / 10 ml
Batch:	1719317	Sequence:	S710242	Calibration:	1710016
Instrument:	HPS11				
Injection Volume (uL):	2.00				
Reported to:	MRL	Dilution:	1		

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
12674-11-2	Aroclor-1016	0.217	0.113	0.217	U
11104-28-2	Aroclor-1221	0.217	0.125	0.217	U
11141-16-5	Aroclor-1232	0.217	0.121	0.217	U
53469-21-9	Aroclor-1242	0.217	0.117	0.217	U
12672-29-6	Aroclor-1248	0.217	0.148	0.217	U
11097-69-1	Aroclor-1254	0.217	0.126	0.217	U
11096-82-5	Aroclor-1260	0.217	0.0925	0.217	U
37324-23-5	Aroclor-1262	0.217	0.0974	0.217	U
11100-14-4	Aroclor-1268	0.217	0.0995	0.217	U

FORM I - ANALYSIS DATA SHEET

SW846 8082A

MW-38-F

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Project Number:	60557397			Received:	11/10/17 15:44
Matrix:	Ground Water	Laboratory ID:	SC41492-24	File ID:	4149224.D
Sampled:	11/09/17 11:50	Prepared:	11/15/17 12:54	Analyzed:	11/17/17 21:12
% Solids:		Preparation:	SW846 3510C	Initial/Final:	910 ml / 10 ml
Batch:	1719317	Sequence:	S710242	Calibration:	1710016
Instrument:	HPS11				
Injection Volume (uL):	2.00				
Reported to:	MRL	Dilution:	1		

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
12674-11-2	Aroclor-1016	0.220	0.114	0.220	U
11104-28-2	Aroclor-1221	0.220	0.126	0.220	U
11141-16-5	Aroclor-1232	0.220	0.122	0.220	U
53469-21-9	Aroclor-1242	0.220	0.118	0.220	U
12672-29-6	Aroclor-1248	0.220	0.149	0.220	U
11097-69-1	Aroclor-1254	0.220	0.127	0.220	U
11096-82-5	Aroclor-1260	0.220	0.0935	0.220	U
37324-23-5	Aroclor-1262	0.220	0.0985	0.220	U
11100-14-4	Aroclor-1268	0.220	0.101	0.220	U

FORM I - ANALYSIS DATA SHEET

SW846 8082A

MW-44

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Project Number:	60557397			Received:	11/10/17 15:44
Matrix:	Ground Water	Laboratory ID:	SC41492-15	File ID:	4149215.D
Sampled:	11/10/17 10:25	Prepared:	11/15/17 12:54	Analyzed:	11/17/17 20:41
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1000 ml / 10 ml
Batch:	1719317	Sequence:	S710242	Calibration:	1710016
Instrument:	HPS11				
Injection Volume (uL):	2.00				
Reported to:	MRL	Dilution:	1		

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
12674-11-2	Aroclor-1016	0.200	0.104	0.200	U
11104-28-2	Aroclor-1221	0.200	0.115	0.200	U
11141-16-5	Aroclor-1232	0.200	0.111	0.200	U
53469-21-9	Aroclor-1242	0.200	0.107	0.200	U
12672-29-6	Aroclor-1248	0.200	0.136	0.200	U
11097-69-1	Aroclor-1254	0.200	0.116	0.200	U
11096-82-5	Aroclor-1260	0.200	0.0851	0.200	U
37324-23-5	Aroclor-1262	0.200	0.0896	0.200	U
11100-14-4	Aroclor-1268	0.200	0.0915	0.200	U

FORM I - ANALYSIS DATA SHEET

SW846 8082A

MW-44-F

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC41492
Client:	AECOM - East Syracuse, NY			Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Project Number:	60557397			Received:	11/10/17 15:44
Matrix:	Ground Water	Laboratory ID:	SC41492-28	File ID:	4149228.D
Sampled:	11/10/17 10:25	Prepared:	11/15/17 12:54	Analyzed:	11/17/17 22:14
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1030 ml / 10 ml
Batch:	1719317	Sequence:	S710242	Calibration:	1710016
Instrument:	HPS11				
Injection Volume (uL):	2.00				
Reported to:	MRL	Dilution:	1		

CAS NO.	COMPOUND	RESULT (µg/l)	MDL	MRL	Q
12674-11-2	Aroclor-1016	0.194	0.101	0.194	U
11104-28-2	Aroclor-1221	0.194	0.112	0.194	U
11141-16-5	Aroclor-1232	0.194	0.108	0.194	U
53469-21-9	Aroclor-1242	0.194	0.104	0.194	U
12672-29-6	Aroclor-1248	0.194	0.132	0.194	U
11097-69-1	Aroclor-1254	0.194	0.113	0.194	U
11096-82-5	Aroclor-1260	0.194	0.0826	0.194	U
37324-23-5	Aroclor-1262	0.194	0.0870	0.194	U
11100-14-4	Aroclor-1268	0.194	0.0888	0.194	U

ATTACHMENT B
SUPPORT DOCUMENTATION

SC 41192

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO.

SITE NAME: UTC

SAMPLERS (PRINT/SIGNATURE): Tom D.../Tom ... // Rob ...

DELIVERY SERVICE: ... AIRBILL NO.: N/A

LAB: Eurofins

COOLER: ... of ...

PAGE: 1 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	HCl	Test 2	Test 3	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO # (IRPIMS ONLY)
MW-035	11/9/17	0820	Grab	MW-035	WG	3	3				N1	—	—	—
MW-03D	11/9/17	0833	Grab	MW-03D	WG	3	3				N1	—	—	—
MW-26	11/9/17	1120	Grab	MW-26	WG	5	3	1	1		N1	—	—	—
MW-35	11/9/17	1150	Grab	MW-35	WG	5	3	1	1		N1	—	—	—
MW-71	11/9/17	1440	Grab	MW-71	WG	3	3				N1	—	—	—
MW-23	11/9/17	1442	Grab	MW-23	WG	5	3	1	1		N1	—	—	—
FD-1	11/9/17	—	Grab	FD-110917	WG	5	3	1	1	mw-23	FD1	—	—	—
MW-10	11/9/17	1535	Grab	MW-10	WG	3	3				N1	—	—	—
MW-19	11/9/17	1607	Grab	MW-19	WG	5	3	1	1		N1	—	—	—
MW-19	11/9/17	1607	Grab	MW-19 MS	WG	5	3	1	1	[illegible] 11/9/17	MS1	—	—	—
MW-19	11/9/17	1607	Grab	MW-19 MSD	WG	5	3	1	1		SD1	—	—	—
TB-1	11/9/17	—	Grab	TB-110917	WQ	2	2			2 TB ...	TB1	—	—	—
TB-1	11/9/17			TB-110917										

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE (# SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Robert ...	11/10/17	1543	[signature]	[illegible]	[illegible]

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]			[signature]	11/10/17	1535

SPECIAL INSTRUCTIONS: [illegible]

Distribution: Original accompanies shipment, copy to coordinator field files

SC41492

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO:

SITE NAME:

SAMPLERS (PRINT/SIGNATURE): [illegible]

DELIVERY SERVICE: [illegible] AIRBILL NO.:

LAB: [illegible]

COOLER: 1+2 of 2

PAGE: 2 of 2

TESTS | BOTTLE TYPE AND PRESERVATIVE: HCl

	LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	HCl			REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
12	MW-17	11/10/17	0825	Grab	MW-17	WG	3	3				N1	–	–	–
13	MW-21	11/10/17	0835	Grab	MW-21	WG	3	3				N1	–	–	–
14	MW-70	11/10/17	0950	Grab	MW-70	WG	3	3				N1	–	–	–
15	MW-44	11/10/17	1025	Grab	MW-44	WG	3	3	1	1		N1	–	–	–
16	MW-75	11/10/17	1137	Grab	MW-75	WG	3	3				N1	–	–	–
17	MW-84	11/10/17	1146	Grab	MW-84	WG	3	3				N1	–	–	–
18	FD-1	11/10/17	–	Grab	FD 111017	WG	3	3			MW-84	FR1	–	–	–
19	MW-69	11/10/17	1340	Grab	MW-69	WG	3	3				N1	–	–	–
20	MW-09	11/10/17	1400	Grab	MW-09	WG	3	3				N1	–	–	–
21	MW-77	11/10/17	1455	Grab	MW-77	WG	3	3				N1	–	–	–
22	MW-76	11/10/17	1525	Grab	MW-76	WG	3	3			[illegible] 11/9/17	N1	–	–	–

0210811

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME	SPECIAL INSTRUCTIONS
[illegible]	11/10/17	1543	[illegible]	11/10/17	1544	[illegible]
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**	
[illegible]						

Distribution: Original accompanies shipment, copy to coordinator field files

0710 10 IR

SC 41492 [illegible]

eurofins | Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page ____ of ____

Special Handling:

☐ Standard TAT - 7 to 10 business days

☐ Rush TAT - Date Needed: ____________

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: ____________

Telephone #: ____________

Project Mgr: ____________

Invoice To: ____________

P.O No.: ____________ Quote #: ____________

Project No: ____________

Site Name: ____________

Location: ____________ State: ____

Sampler(s): ____________

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=______ 12=______

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1=______ X2=______ X3=______

G= Grab C=Compsite

List Preservative Code below:

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC
☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: ____________
State-specific reporting standards:

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: Filtered PCBs								Check if chlorinated	Notes
C41492-25	MW-23-F	11/5/17	14:47	G	GW		1			✓								☐	
26	FD-1-F	11/5/17	—	G	GW		1			✓								☐	
27	MW-19-F	11/5/17	1607	G	GW		3			✓								☐	Plus MS/MSD
28	MW-44-F	11/6/17	10:35	G	GW		1			✓								☐	
																		☐	Filtered PCBs
																		☐	logged in with [illegible]
																		☐	[illegible]
																		☐	[illegible]
																		☐	[illegible] 11/15
																		☐	

Relinquished by:	Received by:	Date:	Time:	Temp °C
				Observed
				Correction Factor
				Corrected
				IR ID #

☐ EDD format: ____________
☐ E-mail to: ____________

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SDGSC41492

SC41492 General Narrative

Eurofins Spectrum Analytical, Inc. submits the enclosed data package for the site characterization of UTC TR3 - 6304 Carrier Pkwy, NY. Samples submitted for analysis by AECOM - East Syracuse, NY. Under this deliverable, analysis results are presented for five Water Field QC samples and twenty three Ground Water samples submitted on November 10th, 2017. Data has been reported to the MRL. The report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The analyses were performed according to USEPA SW846 method analytical guidelines and other methods. In addition the analyses were performed according to criteria dictated by National Environmental Laboratory Accreditation Conference (NELAC) and in accordance with project contract requirements and chain of custody forms.

Observations and/or deviations observed for specific analyses can be found in the analysis narrative:

1. Overall Observations:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual Integrations are coded to provide the data reviewer justification for such action. The codes are labeled on corresponding raw data for GC/MS and GC analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or failing baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Scanned copies of logbook pages are included, with the originals are archived within the laboratory.

The pages in this report have been numbered consecutively, starting with the general narrative and ending with the page labeled as "Last Page of data Report".

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this electronic data package, has been authorized by the laboratory director as verified by the following signature.

Christina A. White

Christina A. White
Laboratory Director

Date: 12/11/2017

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC41492

Client: AECOM - East Syracuse, NY

Project: UTC TR3 - 6304 Carrier Pkwy, NY / 60557397

SDG #: SC41492

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to SW846 8260C.

IV. PREPARATION

Aqueous samples were prepared according to SW846 5030 Water MS.

V. INSTRUMENTATION

The following equipment was used to analyze SW846 8260C:

HPV1 details: Tekmar Atomx, Stratum U trap and conditions used
Agilent 6890N series gas chromatograph
Agilent 5973 Mass Selective Detector Column - DB-VRX,
20 meters, 0.18mm diameter 1.0um film

HPV7 details: GC/MS Tekmar Solatek 72 Multi-matrix vial autosampler Tekmar
Stratum sample concentrator Tekmar #9, U-Shape trap and conditions
used Agilent 7890A series gas chromatograph
Agilent 5975C Mass Selective Detector Column - DB-VRX,
20 meters, 0.18mm diameter 1.0um film

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria with the following exceptions:

In calibration 1711037:

The following analyte, Bromomethane and Tetrachloroethene, are flagged on Form VI – Initial Calibration Data, for ICAL 1711037 / V7111617DOD.M, due to failing the minimum RF criteria. Sensitivity is verified by evaluating Levels of Quantitation, with each new calibration. This is done by recalculating data points used for the calibration under the new method. Form IIc – Low-Concentration Calibration Verification summarizes the recoveries for all analytes at the level of quantitation.

Analyte quantified by quadratic type calibration: 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 1,3-Dichlorobenzene, Carbon tetrachloride, Ethylbenzene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene, Vinyl chloride

This affected the following samples:

S710257-CCV1, S710218-CCV1, S710164-ICV1, MW-76, MW-71, MW-26, MW-03S, MW-03D, 1719593-BSD1, 1719593-BS1, 1719593-BLK1, 1719512-BSD1, 1719512-BS1, 1719512-BLK1

In calibration 1711038:

The following analyte, Acetone, Bromomethane and Tetrahydrofuran are flagged on Form VI – Initial Calibration Data, for ICAL 1711037 / V7111617DOD.M, due to failing the minimum RF criteria. Sensitivity is verified by evaluating Levels of Quantitation, with each new calibration. This is done by recalculating data points used for the calibration under the new method. Form IIc – Low-Concentration Calibration Verification summarizes the recoveries for all analytes at the level of quantitation.

Analyte quantified by quadratic type calibration: 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 1,4-Dioxane, Ethylbenzene, Methyl tert-butyl ether, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene

This affected the following samples:

MW-23, 1719533-BS1, 1719533-BSD1, 1719533-MS1, 1719533-MSD1, FD-110917, FD-111017, MW-09, MW-10, MW-17, 1719533-BLK1, MW-21, TB-111017, MW-38, MW-44, MW-69, MW-70, MW-75, MW-77, MW-84, S710171-ICV1, S710238-CCV1, TB-110917, MW-19

In sample S710238-CCV1:

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Methylene chloride (-28.5%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Acetone (-21.2%)

This affected the following samples:

1719533-BLK1, 1719533-BS1, 1719533-BSD1, 1719533-MS1, 1719533-MSD1, FD-110917, FD-111017, MW-09, MW-10, MW-17, MW-19, MW-21, MW-23, MW-38, MW-44, MW-69, MW-70, MW-75, MW-77, MW-84, TB-110917, TB-111017

B. Blanks:

All blanks were within the acceptance criteria.

C. Surrogates:

All method criteria were met.

D. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met with the following exceptions:

1,1-Dichloroethene, Acetone, Methylene chloride in batch 1719533, sample 1719533-BSD1: The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

In batch 1719533 BSD:

1,1-Dichloroethene RPD 31% (20%) is outside individual acceptance criteria.

Acetone RPD 46% (20%) is outside individual acceptance criteria.

Methylene chloride RPD 27% (20%) is outside individual acceptance criteria.

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

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1719533 from source sample MW-19 (SC41492-09).

All method criteria were met with the following exceptions:

1,1-Dichloroethene in batch 1719533, lab sample 1719533-MSD1 from source sample MW-19 (SC41492-09): RPD out of acceptance range.

Acetone, Methylene chloride in batch 1719533, lab sample 1719533-MSD1 from source sample MW-19 (SC41492-09): The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

1,1-Dichloroethene in batch 1719533, lab sample 1719533-MSD1 from source sample MW-19 (SC41492-09): The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

E. Duplicates:

No client requested duplicate. However, the method criteria may have been fulfilled with non-SDG source samples.

F. Internal Standards:

Internal standards were within the acceptance criteria.

G. Samples:

All method criteria were met with the following exceptions:

In batch 1719512, sample MW-03S (SC41492-01): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

In batch 1719533, samples FD-110917 (SC41492-07), MW-23 (SC41492-06), MW-69 (SC41492-19), MW-71 (SC41492-05RE1): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Trichloroethene in batch 1719593, sample MW-71 (SC41492-05): This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

FORM VI - INITIAL CALIBRATION DATA (Continued)

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC41492
Client:	AECOM - East Syracuse, NY	Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Calibration:	1711038	Instrument:	HPV1
Matrix:	Aqueous	Calibration Date:	11/16/17 00:00
File ID:	V1111617DOD.M		

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.2148007	13.17065	2.104	1.409872E-02			20	
Acetone	3.935742E-02	64.02138	1.747	1.480073E-02	0.9947402		0.99	*
Acrylonitrile	0.0875703	14.462	2.025	1.879395E-02			20	
Benzene	1.062168	16.23577	4.453	1.949445E-02			20	
Bromobenzene	0.7717189	13.76306	8.034	2.519151E-02			20	
Bromochloromethane	0.1426541	19.69788	3.43	1.547496E-02			20	
Bromodichloromethane	0.3182186	15.65267	5.014	1.432576E-02		0.9992493	0.99	
Bromoform	0.3367874	29.15975	7.399	1.721262E-02		0.9992343	0.99	
Bromomethane	0.1766737	21.97498	1.323	0.0114165		0.9954091	0.99	
2-Butanone (MEK)	3.104442E-02	13.6909	3.221	4.621508E-03			20	*
n-Butylbenzene	1.339203	30.48304	9.177	1.217569E-02		0.9994143	0.99	
sec-Butylbenzene	2.261699	27.99867	8.757	1.929789E-02		0.9983497	0.99	
tert-Butylbenzene	1.592105	28.94374	8.6	4.855761E-03		0.9985242	0.99	
Carbon disulfide	0.6228062	16.69698	2.167	2.363816E-02			20	
Carbon tetrachloride	0.2903368	18.87188	4.405	2.176303E-02			20	
Chlorobenzene	1.799155	8.61092	7.069	1.629462E-02			20	
Chloroethane	0.1530968	10.1829	1.391	2.302385E-03			20	
Chloroform	0.4910951	6.095778	3.493	1.827433E-02			20	
Chloromethane	0.2871482	16.9818	1.081	0.0209679	0.9990851		0.99	
2-Chlorotoluene	1.768486	18.00673	8.249	2.350934E-02			20	
4-Chlorotoluene	1.705406	37.28553	8.312	1.096294E-02		0.9986074	0.99	
1,2-Dibromo-3-chloropropane	0.1000518	26.88149	9.386	1.789569E-02		0.9996896	0.99	
Dibromochloromethane	0.2333979	23.74489	6.293	1.340242E-02		0.9991352	0.99	
1,2-Dibromoethane (EDB)	0.257867	17.11556	6.461	2.036135E-02			20	
Dibromomethane	0.1780271	8.813008	4.904	1.800843E-02			20	
1,2-Dichlorobenzene	1.194793	12.33576	9.061	0.0222663			20	
1,3-Dichlorobenzene	1.45828	14.47202	8.778	1.649514E-02			20	
1,4-Dichlorobenzene	1.317167	5.995633	8.825	1.333081E-02			20	
Dichlorodifluoromethane (Freon12)	0.2808059	5.186497	1.013	2.070027E-02			20	
1,1-Dichloroethane	0.4730517	10.8968	2.749	1.691691E-02			20	
1,2-Dichloroethane	0.359655	6.13396	4.054	1.540686E-02			20	
1,1-Dichloroethene	0.1978726	12.57602	1.962	1.728876E-02			20	
cis-1,2-Dichloroethene	0.2861203	17.1042	3.294	1.257269E-02			20	

FORM V - MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC41492
Client:	AECOM - East Syracuse, NY	Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Lab File ID:	BK11120D.D		
Instrument ID:	HPV1	Analyzed:	11/20/17 19:04
Sequence:	S710238	Lab Sample ID:	S710238-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	15.6	PASS
75	30 - 60% of 95	45	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.99	PASS
173	Less than 2% of 174	.667	PASS
174	50 - 100% of 95	89.4	PASS
175	5 - 9% of 174	7.01	PASS
176	95 - 101% of 174	96.8	PASS
177	5 - 9% of 176	6.57	PASS

This check applies to the following samples, blanks, and standards:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
1719533-BLK1	Blank	BK11120D.D	11/20/17	19:04
S710238-CCV1	Calibration Check	CCC1120B.D	11/20/17	19:34
1719533-BS1	LCS	LCS1120C.D	11/20/17	20:05
1719533-BSD1	LCS Dup	LCS1120D.D	11/20/17	20:35
1719533-MS1	Matrix Spike	4149209M.D	11/20/17	21:05
1719533-MSD1	Matrix Spike Dup	4149209R.D	11/20/17	21:35
SC41492-10	TB-110917	4149210.D	11/20/17	22:05
SC41492-11	TB-111017	4149211.D	11/20/17	22:35
SC41492-04	MW-38	4149204.D	11/20/17	23:05
SC41492-05RE1	MW-71	4149205.D	11/20/17	23:35
SC41492-06	MW-23	4149206.D	11/21/17	00:05
SC41492-07	FD-110917	4149207.D	11/21/17	00:35
SC41492-08	MW-10	4149208.D	11/21/17	01:05
SC41492-09	MW-19	4149209.D	11/21/17	01:36
SC41492-12	MW-17	4149212.D	11/21/17	02:06
SC41492-13	MW-21	4149213.D	11/21/17	02:36
SC41492-14	MW-70	4149214.D	11/21/17	03:06
SC41492-15	MW-44	4149215.D	11/21/17	03:36
SC41492-16	MW-75	4149216.D	11/21/17	04:06
SC41492-17	MW-84	4149217.D	11/21/17	04:36
SC41492-18	FD-111017	4149218.D	11/21/17	05:06
SC41492-19	MW-69	4149219.D	11/21/17	05:36

FORM V - MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC41492
Client:	AECOM - East Syracuse, NY	Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Lab File ID:	BK11120D.D		
Instrument ID:	HPV1	Analyzed:	11/20/17 19:04
Sequence:	S710238	Lab Sample ID:	S710238-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	15.6	PASS
75	30 - 60% of 95	45	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.99	PASS
173	Less than 2% of 174	.667	PASS
174	50 - 100% of 95	89.4	PASS
175	5 - 9% of 174	7.01	PASS
176	95 - 101% of 174	96.8	PASS
177	5 - 9% of 176	6.57	PASS

This check applies to the following samples, blanks, and standards:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
SC41492-20	MW-09	4149220.D	11/21/17	06:06
SC41492-21	MW-77	4149221.D	11/21/17	06:37

FORM VII - CONTINUING CALIBRATION CHECK

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC41492
Client:	AECOM - East Syracuse, NY	Project:	UTC TR3 - 6304 Carrier Pkwy, NY
Instrument ID:	HPV1	Calibration:	1711038
Lab File ID:	CCC1120B.D	Calibration Date:	11/16/17 00:00
Sequence:	S710238	Analyzed:	11/20/17 19:34
Lab Sample ID:	S710238-CCV1		
Spike ID:	17K0713		

COMPOUND	TYPE	CONC. (µg/l)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	20.0	15.8	3.935742E-02	1.958661E-02	0.1	-21.2	20 *
Benzene	A	20.0	22.7	1.062168	1.205007	0.5	13.4	20
2-Butanone (MEK)	A	20.0	19.7	3.104442E-02	3.057074E-02	0.1	-1.5	20
n-Butylbenzene	Q	20.0	20.8	1.339203	1.605939		4.2	20
sec-Butylbenzene	Q	20.0	21.2	2.261699	2.785735		6.0	20
tert-Butylbenzene	Q	20.0	20.8	1.592105	1.927057		3.9	20
Carbon tetrachloride	A	20.0	22.2	0.2903368	0.3230448	0.1	11.3	20
Chlorobenzene	A	20.0	21.4	1.799155	1.927693	0.5	7.1	20
Chloroform	A	20.0	20.9	0.4910951	0.5136778	0.2	4.6	20
1,2-Dichlorobenzene	A	20.0	21.4	1.194793	1.27535	0.4	6.7	20
1,3-Dichlorobenzene	A	20.0	22.1	1.45828	1.608676	0.6	10.3	20
1,4-Dichlorobenzene	A	20.0	20.6	1.317167	1.360112	0.5	3.3	20
1,1-Dichloroethane	A	20.0	21.4	0.4730517	0.5070248	0.2	7.2	20
1,2-Dichloroethane	A	20.0	20.8	0.359655	0.3741795	0.1	4.0	20
1,1-Dichloroethene	A	20.0	16.7	0.1978726	0.1649982	0.1	-16.6	20
cis-1,2-Dichloroethene	A	20.0	22.6	0.2861203	0.3239481	0.1	13.2	20
trans-1,2-Dichloroethene	A	20.0	21.5	0.2520713	0.2713832	0.1	7.7	20
Ethylbenzene	Q	20.0	21.0	2.42326	2.936332	0.1	4.8	20
Methyl tert-butyl ether	Q	20.0	20.4	0.6417291	0.7167356	0.1	2.2	20
Methylene chloride	A	20.0	14.3	0.2966883	0.2120717	0.1	-28.5	20 *
n-Propylbenzene	Q	20.0	21.1	2.707495	3.284651	0.1	5.6	20
Tetrachloroethene	A	20.0	19.4	0.2439513	0.2368538	0.2	-2.9	20
Toluene	A	20.0	21.9	0.6954725	0.7604878	0.4	9.3	20
1,1,1-Trichloroethane	A	20.0	21.4	0.3620941	0.388385	0.1	7.3	20
Trichloroethene	A	20.0	22.3	0.25495	0.284797	0.2	11.7	20
1,2,4-Trimethylbenzene	Q	20.0	20.9	1.943762	2.407073		4.6	20
1,3,5-Trimethylbenzene	Q	20.0	20.9	1.905423	2.324356		4.4	20
Vinyl chloride	A	20.0	19.8	0.2120572	0.2093578		-1.3	20
1,4-Dioxane	Q	200	208	2.411208E-03	2.989584E-03		4.1	20

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC41492

Client: AECOM - East Syracuse, NY

Project: UTC TR3 - 6304 Carrier Pkwy, NY / 60557397

SDG #: SC41492

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to SW846 8082A.

IV. PREPARATION

Aqueous samples were prepared according to SW846 3510C.

V. INSTRUMENTATION

The following equipment was used to analyze SW846 8082A:

HPS11 details: Agilent 6890 series dual column ECD GC with RTX-CLPesticides (30m, 0.53mmID, 0.5um df) and DB-5MS column ((30m, 0.53mmID 1.50 df)

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria.

B. Blanks:

All blanks were within the acceptance criteria.

C. Surrogates:

All method criteria were met with the following exceptions:

4,4-DB-Octafluorobiphenyl (Sr) in batch 1719317, samples FD-110917 (SC41492-07), FD-110917-F (SC41492-26), MW-23-F (SC41492-25): The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

D. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met.

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

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1719317 from source sample MW-19-F (SC41492-27).

In batch 1719317 from source sample MW-19 (SC41492-09).

All method criteria were met with the following exceptions:

Aroclor-1016 [2C] in batch 1719317, lab sample 1719317-MSD2 from source sample MW-19 (SC41492-09): The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

Aroclor-1016 [2C] in batch 1719317, lab sample 1719317-MSD3 from source sample MW-19-F (SC41492-27): The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

E. Duplicates:

No client requested duplicate. However, the method criteria may have been fulfilled with non-SDG source samples.

F. Internal Standards:

Internal standards were within the acceptance criteria.

G. Samples:

All method criteria were met.

SC41582

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO.

SITE NAME: UTC

SAMPLERS (PRINT/SIGNATURE): [illegible]

DELIVERY SERVICE: Drop off AIRBILL NO.: N/A

LAB: [illegible]

COOLER 1 of 1

PAGE 1 of 2

TESTS

BOTTLE TYPE AND PRESERVATIVE: HCL

	LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO # OF CONTAINERS	HCL	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO # (IRPIMS ONLY)
01	AR-MW-02	11/13/17	1043	Grab	AR-MW-02	WG	3	3		N1	–	–	–
02	MW-45	11/13/17	1105	Grab	MW-45	WG	3	3		N1	–	–	–
03	AR-MW-2	11/13/17	1135	Grab	AR-MW-2	WG	3	3		N1	–	–	–
04	TR3-PW-01	11/13/17	1235	Grab	TR3-PW-01	WG	3	3	TRB-PW-01	N1	–	–	–
05	FD-1	11/13/17	–	Grab	FD-111317	WQ	3	3		FD1	–	–	–
06	MW-15	11/13/17	1310	Grab	MW-15	WG	3	3		N1	–	–	–
	MW-15	11/13/17	1310	Grab	MW-15-MS	WG	3	3		MS1	–	–	–
	MW-15	11/13/17	1310	Grab	MW-15-MSD	WG	3	3		SD1	–	–	–
07	MW-50	11/13/17	1345	Grab	MW-50	WG	3	3		N1	–	–	–
08	MW-14	11/13/17	1120	Grab	MW-14	WG	3	3		N1	–	–	–
09	MW-55	11/13/17	1010	Grab	MW-55	WG	3	3		N1	–	–	–
10	TR3-MW-2	11/13/17	1022	Grab	TR3-MW-2	WG	3	3	TR3-MW-2	N1	–	–	–
11	MW-66	11/13/17	1020	Grab	MW-66	WG	3	3		N1	–	–	–

SR2

CRDS 2/9/17

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	11/14/17	1215	[signature]	11/14/17	1215

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]			[signature]	11/14/17	1425

SPECIAL INSTRUCTIONS: Any Questions contact [illegible] @ 716 [illegible]

Distribution: Original accompanies shipment, copy to coordinator field files

L 3.0 / 3 IR 3

SDG SC41582 Page 7 / 1162

SC41582a

CHAIN OF CUSTODY RECORD

AECOM

PROJECT NO.

SITE NAME: UTC

SAMPLERS (PRINT/SIGNATURE): [illegible]

DELIVERY SERVICE: Drop Off   AIRBILL NO.: N/A

LAB: Eurofins
COOLER 1 of 1
PAGE 2 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE: [illegible]

582

	LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO # OF CONTAINERS	[illegible]								REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
12	MW-71	11/13/17	1603	Grab	MW-71	WG	3	3									N	–	–	–
13	MW-57	11/13/17	1710	Grab	MW-57	WG	3	3									N	–	–	–
14	DF-[illegible]	11/14/17	0810	Grab	DF-MW-[illegible]	WG	3	3									N	–	–	–
15	MW-45	11/14/17	0835	Grab	MW-45	WG	3	3									N	–	–	–
16	TB-1	11/13/17 11/14/17	–	[illegible]	TB-111317 / 111417 -16 -17	WQ	2	2									TB	–	–	–

MATRIX CODES
AA - AMBIENT AIR
SE - SEDIMENT
SH - HAZARDOUS SOLID WASTE
SL - SLUDGE
WP - DRINKING WATER
WW - WASTE WATER
WG - GROUND WATER
SO - SOIL
DC - DRILL CUTTINGS
WL - LEACHATE
GS - SOIL GAS
WC - DRILLING WATER
WO - OCEAN WATER
WS - SURFACE WATER
WQ - WATER FIELD QC
LH - HAZARDOUS LIQUID WASTE
LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK
SD# - MATRIX SPIKE DUPLICATE
RB# - RINSE BLANK
FR# - FIELD REPLICATE
N# - NORMAL ENVIRONMENTAL SAMPLE
MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	11/14/17	1215	[signature]	11/14/17	1215
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]			[signature]	11/15/17	1415

SPECIAL INSTRUCTIONS
See Pg 1

Distribution: Original accompanies shipment, copy to coordinator field files

13 / 0 / 13 IR 3 [illegible]

SDGSC41582

SC41582 General Narrative

Eurofins Spectrum Analytical, Inc. submits the enclosed data package for the site characterization of UTC TR3 - 6304 Carrier Pkwy, NY. Samples submitted for analysis by AECOM - East Syracuse, NY. Under this deliverable, analysis results are presented for three Water Field QC samples and fourteen Ground Water samples submitted on November 14th, 2017. Data has been reported to the MRL. The report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The analyses were performed according to USEPA SW846 method analytical guidelines and other methods. In addition the analyses were performed according to criteria dictated by National Environmental Laboratory Accreditation Conference (NELAC) and in accordance with project contract requirements and chain of custody forms.

Observations and/or deviations observed for specific analyses can be found in the analysis narrative:

1. Overall Observations:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual Integrations are coded to provide the data reviewer justification for such action. The codes are labeled on corresponding raw data for GC/MS and GC analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or failing baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Scanned copies of logbook pages are included, with the originals are archived within the laboratory.

The pages in this report have been numbered consecutively, starting with the general narrative and ending with the page labeled as "Last Page of data Report".

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this electronic data package, has been authorized by the laboratory director as verified by the following signature.

Christina A. White

Christina A. White
Laboratory Director

Date: 12/11/2017

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC41582

Client: AECOM - East Syracuse, NY

Project: UTC TR3 - 6304 Carrier Pkwy, NY / 60557397

SDG #: SC41582

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

III. METHODS

Analyses were performed according to SW846 8260C.

IV. PREPARATION

Aqueous samples were prepared according to SW846 5030 Water MS.

V. INSTRUMENTATION

The following equipment was used to analyze SW846 8260C:

HPV7 details: GC/MS Tekmar Solatek 72 Multi-matrix vial autosampler Tekmar
Stratum sample concentrator Tekmar #9, U-Shape trap and conditions
used Agilent 7890A series gas chromatograph
Agilent 5975C Mass Selective Detector Column - DB-VRX,
20 meters, 0.18mm diameter 1.0um film

VI. ANALYSIS

A. Calibration:

All quality control samples were within the acceptance criteria with the following exceptions:

In calibration 1711037:

The following analyte, Bromomethane and Tetrachloroethene, are flagged on Form VI – Initial Calibration Data, for ICAL 1711037 / V7111617DOD.M, due to failing the minimum RF criteria. Sensitivity is verified by evaluating Levels of Quantitation, with each new calibration. This is done by recalculating data points used for the calibration under the new method. Form IIc – Low-Concentration Calibration Verification summarizes the recoveries for all analytes at the level of quantitation.

Analyte quantified by quadratic type calibration: 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 1,3-Dichlorobenzene, Carbon tetrachloride, Ethylbenzene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene, Vinyl chloride

This affected the following samples:

MW-45, 1719671-BS1, 1719671-BSD1, 1719671-MS1, 1719671-MSD1, 1719759-BLK1, 1719759-BLK2, 1719759-BS1, 1719759-BSD1, AR-MW-02, AR-MW-06, DP-MW-04, FD-111317, 1719671-BLK1, MW-18, TR3-PW-01, MW-48, MW-50, MW-57, MW-58, MW-66, MW-79, S710164-ICV1, S710303-CCV1, S710339-CCV1, TB-111317, TB-111417, TR3-MW-02, MW-14

B. Blanks:

All blanks were within the acceptance criteria.

C. Surrogates:

All method criteria were met.

D. Spikes:

1. Laboratory Control Samples (LCS):

All method criteria were met with the following exceptions:

Chloroform, Methylene chloride in batch 1719759, samples 1719759-BS1, 1719759-BSD1: Analyte is found in the associated blank as well as in the sample (CLP B-flag).

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

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1719671 from source sample MW-18 (SC41582-06).

All method criteria were met.

E. Duplicates:

No client requested duplicate. However, the method criteria may have been fulfilled with non-SDG source samples.

F. Internal Standards:

Internal standards were within the acceptance criteria.

G. Samples:

All method criteria were met with the following exceptions:

In batch 1719671, samples FD-111317 (SC41582-05), MW-18 (SC41582-06), MW-45 (SC41582-15), TR3-PW-01 (SC41582-04): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

cis-1,2-Dichloroethene in batch 1719671, sample MW-66 (SC41582-11): This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

In batch 1719759, sample MW-66 (SC41582-11RE1): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

APPENDIX C
HISTORICAL GROUNDWATER ANALYTICAL DATA
(Appendix D and Appendix F of the EnSafe Corrective Measures Update Site-wide Groundwater Monitoring Report - June 2015 and AECOM Data from April 2016 to November 2017)

Appendix D
Groundwater Analytical Results Historical Summary
Carrier Thompson Rd. Facility

Well Number	Sample Identification	Sample Date	Acetone	Benzene	Carbon disulfide	Chloro-form	1,1-DCA	1,2-DCA	1,1-DCE	Total 1,2-DCE	trans-1,2-DCE	cis-1,2-DCE	1,1,1-TCA	1,1,2-TCA	2-Hexanone	TCE	PCE	Vinyl Chloride	MTBE
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NYSDEC Standard			50 G	1	50 G	7	5	0.6	0.7 G	N/A	5	5	5	1	N/A	5	5 G	2	N/A
MW-01	MW-01	12/31/1985	NA	NA	ND	NA	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND
	MW-1	2/8/1990	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	6/5/1990	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	11/16/1990	NA	NA	ND	NA	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND
	MW-1 (DUP)	11/16/1990	NA	NA	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND
	MW-1	5/22/1991	NA	ND	NA	NA	**3**	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-1	2/6/1992	NA	ND	NA	NA	**3**	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	**6**	NA
	MW-1	8/10/1992	NA	ND	NA	NA	**3**	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	**6**	NA
	MW-1	2/22/1993	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-1	8/23/1993	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-1	5/2/1994	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	8/25/1994	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-1	2/15/1995	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	8/21/1995	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	2/9/1996	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	8/9/1996	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	2/6/1997	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	8/22/1997	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	2/17/1998	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	8/31/1998	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	3/4/1999	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	8/27/1999	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	3/2/2000	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	CARGMW0103	4/18/2000	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW-1	8/15/2000	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	CARGMW0104	7/12/2001	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
(Duplicate)	MW-1	7/12/2001	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-1	12/18/2001	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	CARGMW0105	6/24/2002	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW0105	6/23/2003	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW0106	6/21/2004	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW0106	7/11/2005	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW0107	11/7/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	CARGMW0108	2/12/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	CARGMW0109	5/8/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	CARGMW0110	8/21/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	CARGMW0111	6/28/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	CARGMW0112	6/29/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	CARGMW0112	6/28/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Appendix D
Groundwater Analytical Results Historical Summary
Carrier Thompson Rd. Facility

Well Number	Sample Identification	Sample Date	Acetone	Benzene	Carbon disulfide	Chloro-form	1,1-DCA	1,2-DCA	1,1-DCE	Total 1,2-DCE	trans-1,2-DCE	cis-1,2-DCE	1,1,1-TCA	1,1,2-TCA	2-Hexanone	TCE	PCE	Vinyl Chloride	MTBE
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NYSDEC Standard			50 G	1	50 G	7	5	0.6	0.7 G	N/A	5	5	5	1	N/A	5	5 G	2	N/A
MW-03D	MW-3D	12/31/1985	NA	NA	ND	ND	ND	ND	ND	NA	**39**	NA	ND	ND	ND	ND	ND	ND	ND
	MW-3D	2/8/1990	NA	ND	NA	NA	ND	ND	ND	NA	ND	**21**	NA	ND	NA	ND	NA	ND	NA
	MW-3D	6/5/1990	NA	ND	NA	NA	ND	ND	ND	NA	240	NA	NA	ND	NA	ND	NA	ND	NA
	MW-3D	5/22/1991	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-3D	2/5/1992	NA	ND	NA	NA	**22**	ND	**3**	NA	ND	NA	NA	ND	NA	ND	NA	**44**	NA
	MW-3D	8/10/1992	NA	ND	NA	NA	**100**	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	**450**	NA
	MW-3D	2/22/1993	NA	ND	NA	NA	**14**	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	**29**	NA
	MW-3D	8/23/1993	NA	ND	NA	NA	**76**	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	**97**	NA
	MW-3D	5/2/1994	NA	ND	NA	NA	ND	ND	ND	NA	ND	**26**	NA	ND	NA	ND	NA	ND	NA
	MW-3D	8/25/1994	NA	ND	NA	NA	**5**	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	**12**	NA
	MW-3D	2/15/1995	NA	ND	NA	NA	ND	ND	ND	NA	ND	**11**	NA	ND	NA	ND	NA	ND	NA
	MW-3D	8/21/1995	NA	ND	NA	NA	ND	ND	ND	NA	ND	**21**	NA	ND	NA	ND	NA	ND	NA
	MW-3D	2/9/1996	NA	ND	NA	NA	ND	ND	ND	NA	ND	**25**	NA	ND	NA	ND	NA	ND	NA
	MW-3D	8/9/1996	NA	ND	NA	NA	**4**	ND	ND	NA	ND	**140**	NA	ND	NA	ND	NA	**5**	NA
	MW-3D	2/6/1997	NA	ND	NA	NA	ND	ND	ND	NA	ND	**17**	NA	ND	NA	ND	NA	ND	NA
	MW-3D	8/22/1997	NA	ND	NA	NA	ND	ND	ND	NA	ND	**8**	NA	ND	NA	ND	NA	ND	NA
	MW-3D	2/17/1998	NA	ND	NA	NA	ND	ND	ND	NA	ND	**13**	NA	ND	NA	ND	NA	ND	NA
	MW-3D	8/31/1998	NA	ND	NA	NA	ND	ND	ND	NA	ND	**10**	NA	ND	NA	ND	NA	ND	NA
	MW-3D	3/4/1999	NA	ND	NA	NA	ND	ND	ND	NA	ND	**13**	NA	ND	NA	ND	NA	ND	NA
	MW-3D	8/27/1999	NA	ND	NA	NA	ND	ND	ND	NA	ND	**14**	NA	ND	NA	ND	NA	ND	NA
	MW-3D	3/2/2000	NA	ND	NA	NA	ND	ND	ND	NA	ND	**11**	NA	ND	NA	ND	NA	ND	NA
	CARGW03D03	5/2/2000	ND	ND	ND	ND	ND	ND	ND	**7**	NA	NA	ND	ND	ND	ND	ND	1.1 J	ND
	MW-3D	8/15/2000	NA	ND	NA	NA	ND	ND	ND	NA	ND	**19**	NA	ND	NA	ND	NA	ND	NA
	CARGMW3D04	7/12/2001	ND	ND	ND	ND	0.72 J	ND	ND	NA	1.2 J	**23.2**	ND	ND	ND	ND	ND	ND	ND
(Duplicate)	MW-3D	7/12/2001	NA	ND	NA	NA	**0.72**	ND	ND	NA	**1.2**	**23.2**	NA	ND	NA	ND	NA	ND	NA
	MW-3D	12/18/2001	NA	ND	NA	NA	ND	ND	ND	NA	ND	**12**	NA	ND	NA	ND	NA	ND	NA
	CARGMW3D05	6/25/2002	ND	ND	ND	ND	ND	ND	ND	NA	ND	**6.2**	ND	ND	ND	ND	ND	ND	ND
	CARGMW3D05	6/25/2003	ND	ND	ND	ND	ND	ND	ND	NA	ND	**4.8**	ND	ND	ND	ND	ND	ND	ND
(Duplicate)	CARHMW3D05	6/25/2003	ND	ND	ND	ND	ND	ND	ND	NA	ND	**4.7**	ND	ND	ND	ND	ND	ND	ND
	CARHMW3D06	6/21/2004	ND	ND	ND	ND	ND	ND	ND	NA	ND	**14.4**	ND	ND	ND	ND	ND	ND	ND
	CARGMW3D06	7/12/2005	ND	ND	ND	ND	0.38 J	ND	ND	NA	ND	**12.7**	ND	ND	ND	ND	ND	0.70 J	ND
	CARGMW3D07	11/7/2006	ND	ND	ND	ND	ND	ND	ND	NA	ND	**8.7**	ND	ND	ND	ND	ND	ND	ND
	CARGMW3D08	2/12/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	**9.4**	ND	ND	ND	ND	ND	ND	ND
	CARGMW3D09	5/8/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	**5.5**	ND	ND	ND	ND	ND	ND	ND
	CARGMW3010	8/21/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	**5**	ND	ND	ND	ND	ND	0.77 J	ND
	ENSTHMPMW3D0609	6/29/2009	ND	ND	ND	ND	0.49 J	ND	ND	NA	ND	**14.7**	ND	ND	ND	ND	ND	**2.0**	ND
	CARGMW3D0610	6/30/2010	ND	ND	ND	ND	0.43 J	ND	ND	NA	ND	**15.2**	ND	ND	ND	ND	ND	**1.6**	ND
(Duplicate)	CARHMW3D0610	6/30/2010	ND	ND	ND	ND	0.75 J	ND	ND	NA	0.40 J	**24.2**	ND	ND	ND	ND	ND	**2.8**	ND
	CARGMW3D0611	6/28/2011	ND	ND	ND	ND	ND	ND	ND	NA	ND	**6.8**	ND	ND	ND	ND	ND	ND	ND
	CARGMW3D0812	8/15/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	**13.7**	ND	ND	ND	ND	ND	ND	ND
(Duplicate)	CARHMW3D0812	8/15/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	**10.4**	ND	ND	ND	ND	ND	ND	ND
	CARGMW03D0613	6/11/2013	ND	ND	ND	ND	1.5 J	ND	ND	NA	**3.9**	**38**	ND	ND	ND	ND	ND	2.3 J	ND
	MW03DWG063014	06/30/2014	ND	ND	ND	ND	**1.3**	ND	ND	NA	ND	**41**	ND	ND	ND	ND	ND	**0.48 J**	ND
	MW3DWG061915	06/19/2015	0.97 JB	ND	ND	ND	**1.1**	ND	ND	ND	ND	**34**	ND	ND	ND	ND	ND	ND	ND

Appendix D
Groundwater Analytical Results Historical Summary
Carrier Thompson Rd. Facility

Well Number	Sample Identification	Sample Date	Acetone	Benzene	Carbon disulfide	Chloro-form	1,1-DCA	1,2-DCA	1,1-DCE	Total 1,2-DCE	trans-1,2-DCE	cis-1,2-DCE	1,1,1-TCA	1,1,2-TCA	2-Hexanone	TCE	PCE	Vinyl Chloride	MTBE
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NYSDEC Standard			50 G	1	50 G	7	5	0.6	0.7 G	N/A	5	5	5	1	N/A	5	5 G	2	N/A
MW-03S	MW-3S	12/31/1985	NA	NA	ND	ND	**78**	ND	**15**	NA	**982**	NA	ND	ND	ND	ND	ND	ND	ND
	MW-3S	2/8/1990	NA	ND	NA	NA	ND	ND	ND	NA	ND	**32,000**	NA	ND	NA	ND	NA	ND	NA
	MW-3S	6/5/1990	NA	ND	NA	NA	**400**	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	**1,000**	NA
	MW-3S	11/16/1990	NA	NA	ND	NA	**490**	**7.6**	**100**	NA	**6.4**	NA	**17**	**9.5**	ND	**11**	ND	**1,600**	ND
(Duplicate)	MW-3S (DUP)	11/16/1990	NA	NA	ND	NA	**1,100**	**12**	**250**	NA	**12**	NA	ND	**10**	ND	**15**	ND	**1,200**	ND
	MW-3S	5/22/1991	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	**2,500**	NA
	MW-3S	2/5/1992	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-3S	8/10/1992	NA	ND	NA	NA	**370**	ND	**90**	NA	ND	NA	NA	ND	NA	ND	NA	**1,100**	NA
	MW-3S	2/22/1993	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	**2,000**	NA
	MW-3S	8/23/1993	NA	ND	NA	NA	**660**	ND	ND	NA	ND	NR	NA	ND	NA	ND	NA	**1,000**	NA
	MW-3S	5/2/1994	NA	ND	NA	NA	**630**	ND	ND	NA	ND	**14,000**	NA	ND	NA	ND	NA	**1,700**	NA
	MW-3S	8/25/1994	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	**800**	NA
	MW-3S	2/15/1995	NA	ND	NA	NA	**380**	ND	ND	NA	ND	**1,400**	NA	ND	NA	ND	NA	**790**	NA
	MW-3S	8/21/1995	NA		NA	NA	ND	ND	ND	NA	ND	**11,000**	NA	ND	NA	ND	NA	**370**	NA
	MW-3S	2/9/1996	NA	ND	NA	NA	ND	ND	ND	NA	ND	**11,000**	NA	ND	NA	ND	NA	**650**	NA
	MW-3S	8/9/1996	NA	ND	NA	NA	ND	ND	ND	NA	ND	**11,000**	NA	ND	NA	ND	NA	ND	NA
	MW-3S	2/6/1997	NA	ND	NA	NA	ND	ND	**70**	NA	**7**	**9,300**	NA	**5**	NA	**7**	NA	**750**	NA
	MW-3S	8/22/1997	NA	ND	NA	NA	**200**	ND	**60**	NA	**6**	**8,500**	NA	**4**	NA	**6**	NA	**660**	NA
	MW-3S	2/17/1998	NA	ND	NA	NA	ND	ND	ND	NA	ND	**9,200**	NA	ND	NA	ND	NA	**1,400**	NA
	MW-3S	8/31/1998	NA	ND	NA	NA	**270**	ND	**68**	NA	**8**	**11,000**	NA	**5**	NA	**8**	NA	**1,300**	NA
	MW-3S	3/4/1999	NA	ND	NA	NA	**200**	ND	ND	NA	ND	**8,000**	NA	ND	NA	ND	NA	**550**	NA
	MW-3S	8/27/1999	NA	ND	NA	NA	**180**	ND	ND	NA	ND	**6,500**	NA	ND	NA	ND	NA	**440**	NA
	MW-3S	3/2/2000	NA	ND	NA	NA	**200**	ND	ND	NA	ND	**6,400**	NA	ND	NA	ND	NA	**940**	NA
	CARGMW3S03	4/20/2000	ND	ND	ND	ND	**240**	1.8 J	**60**	**8,100**	NA	NA	ND	3.7 J	ND	4.6 J	ND	**1,100**	ND
	MW-3S	8/15/2000	NA	ND	NA	NA	**190**	ND	ND	NA	ND	**6,500**	NA	ND	NA	ND	NA	**490**	NA
	CARGMW3S04	7/12/2001	ND	ND	ND	ND	**164**	ND	38.3 J	NA	13.9 J	**5,780**	ND	ND	ND	ND	ND	**567**	ND
(Duplicate)	MW-3S	7/12/2001	NA	ND	NA	NA	**164**	ND	**38.3**	NA	**13.9**	**5,780**	NA	ND	NA	ND	NA	**567**	NA
	MW-3S	12/18/2001	NA	ND	NA	NA	ND	ND	ND	NA	ND	**3,700**	NA	ND	NA	ND	NA	ND	NA
	CARGMW3S05	6/25/2002	ND	ND	ND	ND	**163**	ND	**34**	NA	ND	**5,410 E**	ND	ND	ND	2.6 J	ND	**746**	ND
(Duplicate)	CARHMW3S05	6/25/2002	ND	ND	ND	ND	**159**	ND	**34**	NA	ND	**5,320 E**	ND	ND	ND	2.2 J	ND	**739**	ND
	CARGMW3S05	6/23/2003	ND	ND	ND	ND	**144**	ND	**29**	NA	9.7 J	**6,450 D**	ND	ND	ND	ND	ND	**621**	18.4 J
	CARGMW3S06	6/21/2004	ND	ND	ND	ND	**136**	ND	**25.9**	NA	ND	**5,260 D**	ND	ND	ND	ND	ND	**808**	ND
	CARGMW3S	7/12/2005	ND	ND	ND	ND	**77.4**	ND	**17.7**	NA	5.0 J	**2,940**	ND	ND	ND	3.7 J	ND	**330**	ND
(Duplicate)	CARGDUP1	7/12/2005	ND	ND	ND	ND	**74.9**	ND	**15.5**	NA	4.9 J	**2,930**	ND	ND	ND	ND	ND	**311**	ND
	CARGMW3S07	11/7/2006	ND	ND	ND	ND	**65.5**	ND	**13.7**	NA	4.3 J	**1,900**[a]	ND	ND	ND	ND	ND	**244**	ND
	CARGMW3S08	2/12/2007	ND	ND	ND	ND	**47.8**	ND	**11.7**	NA	**11.3**	**1,420**[a]	ND	ND	ND	1.9 J	ND	**154**	ND
	CARGMW3509	5/8/2007	ND	ND	ND	ND	**59.6**	ND	**15.0**	NA	**9.0**	**2,130** [a]	ND	ND	ND	2.4 J	ND	**221**	ND
	CARGMW3510	8/21/2007	ND	ND	ND	ND	**45.1**	ND	ND	NA	ND	**1,940**	ND	ND	ND	ND	ND	**188**	ND
	ENSTHMPMW3S0609	6/29/2009	ND	ND	ND	ND	**35.2**	ND	9.4 J	NA	ND	**1,450**	ND	ND	ND	ND	ND	**154**	ND
	CARGMW3S0610	6/30/2010	ND	ND	ND	ND	**57.4**	ND	**17.1**	NA	**26.8**	**2,040**	ND	ND	ND	**2.0**	ND	**197**	ND
	CARGMW3S0611	6/28/2011	ND	ND	ND	ND	**59.3**	ND	**14.3**	NA	**26.5**	**1,970** [a]	ND	ND	ND	**2.1**	ND	**168**	ND
	CARGMW3S0612	6/13/2012	ND	ND	ND	ND	**27.1**	ND	**6.7**	NA	**3.3**	**965 a**	ND	ND	ND	**1.0**	ND	**83.5**	ND
	CARGMW350812	8/14/2012	ND	ND	ND	ND	**26.3**	ND	**6.5**	NA	ND	**833 a**	ND	ND	ND	ND	ND	**104**	ND
	CARGMW03S0613	6/11/2013	ND	ND	ND	ND	**27**	ND	5.4 J	NA	ND	**1000 B**	ND	ND	ND	ND	ND	**96**	ND
	MW03SWG063014	06/30/2014	**650**	ND	ND	ND	**11**	ND	**2.4 J**	NA	ND	**390**	ND	ND	ND	ND	ND	**29**	ND
	MW03SWG061915	06/19/2015	**57 JB**	ND	ND	ND	**14 J**	ND	ND	ND	ND	**580**	ND	ND	ND	ND	ND	**48**	ND

Appendix D
Groundwater Analytical Results Historical Summary
Carrier Thompson Rd. Facility

Well Number	Sample Identification	Sample Date	Acetone	Benzene	Carbon disulfide	Chloro-form	1,1-DCA	1,2-DCA	1,1-DCE	Total 1,2-DCE	trans-1,2-DCE	cis-1,2-DCE	1,1,1-TCA	1,1,2-TCA	2-Hexanone	TCE	PCE	Vinyl Chloride	MTBE
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NYSDEC Standard			50 G	1	50 G	7	5	0.6	0.7 G	N/A	5	5	5	1	N/A	5	5 G	2	N/A
MW-05	MW-5	2/8/1990	NA	ND	NA	NA	ND	ND	ND	NA	ND	**18**	NA	ND	NA	ND	NA	ND	NA
	MW-5	6/5/1990	NA	ND	NA	NA	ND	ND	ND	NA	**25**	NA	NA	ND	NA	ND	NA	ND	NA
	MW-5	11/16/1990	NA	NA	ND	NA	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW-5	5/22/1991	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-5	2/5/1992	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-5	8/10/1992	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-5	2/22/1993	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-5	8/23/1993	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-5	5/2/1994	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-5	8/25/1994	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-5	2/15/1995	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-5	8/21/1995	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-5	2/9/1996	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-5	8/9/1996	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	**5**	NA
	MW-5	2/6/1997	NA	ND	NA	NA	ND	ND	ND	NA	ND	**12**	NA	**5**	NA	**7**	NA	ND	NA
	MW-5	8/22/1997	NA	ND	NA	NA	ND	ND	ND	NA	ND	**8**	NA	ND	NA	ND	NA	ND	NA
	MW-5	2/17/1998	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-5	8/31/1998	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-5	3/4/1999	NA	**5**	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-5	8/27/1999	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-5	3/2/2000	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	CARGMW0503	5/2/2000	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND
	MW-5	8/15/2000	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	CARGMW0504	7/12/2001	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
(Duplicate)	MW-5	7/12/2001	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-5	12/18/2001	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	CARGMW0505	6/24/2002	**117**	ND	1.4 J	ND	ND	ND	ND	NA	ND	0.24 J	ND	ND	ND	ND	ND	ND	ND
	CARGMW0505	6/25/2003	ND	ND	1.0 J	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW0506	6/23/2004	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW0506	7/12/2005	**12.9**	ND	ND	ND	ND	ND	ND	NA	ND	0.27 J	ND	ND	ND	ND	ND	ND	ND
	CARGMW0507	11/8/2006	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW0508	2/13/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW0509	5/8/2007	ND	ND	0.66 J	ND	ND	ND	ND	NA	ND	0.24 J	ND	ND	ND	ND	ND	ND	ND
	CARGMW0510	8/21/2007	ND	ND	0.66 J	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ENSTHMPMW050609	6/29/2009	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW050610	6/29/2010	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Not Sampled	6/13/2012	Could Not Be Located																
MW-05R	CARGMW05R0812	8/15/2012	9.9	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW05R0613	6/12/2013	2.9 J	ND	ND	ND	ND	ND	ND	NA	ND	ND	0.24 J	ND	ND	ND	ND	ND	ND
	MW5RWG062714	06/27/2014	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW05RWG061615	06/16/2015	1.3 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Groundwater Analytical Results Historical Summary
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Well Number	Sample Identification	Sample Date	Acetone	Benzene	Carbon disulfide	Chloro-form	1,1-DCA	1,2-DCA	1,1-DCE	Total 1,2-DCE	trans-1,2-DCE	cis-1,2-DCE	1,1,1-TCA	1,1,2-TCA	2-Hexanone	TCE	PCE	Vinyl Chloride	MTBE
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NYSDEC Standard			50 G	1	50 G	7	5	0.6	0.7 G	N/A	5	5	5	1	N/A	5	5 G	2	N/A
MW-06	MW-6	2/8/1990	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-6	6/5/1990	NA	ND	NA	NA	ND	ND	ND	NA	13	NA	NA	ND	NA	ND	NA	ND	NA
	MW-6	11/16/1990	NA	NA	ND	NA	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW0603	4/18/2000	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
	MW-6	5/22/1991	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-6	2/5/1992	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	**4**	NA	ND	NA
	MW-6	8/10/1992	NA	ND	NA	NA	**7**	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	**13**	NA
	MW-6	2/22/1993	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-6	8/23/1993	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	**6**	NA	ND	NA
	MW-6	5/2/1994	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-6	8/25/1994	NA	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	ND	NA	ND	NA	ND	NA
	MW-6	2/15/1995	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-6	8/21/1995	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-6	2/9/1996	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-6	8/9/1996	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	**5**	NA
	MW-6	2/6/1997	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-6	8/22/1997	NA	ND	NA	NA	ND	ND	ND	NA	ND	**8**	NA	ND	NA	ND	NA	ND	NA
	MW-6	2/17/1998	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-6	8/31/1998	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-6	3/4/1999	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-6	8/27/1999	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-6	3/2/2000	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-6	8/15/2000	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	CARGMW0604	7/12/2001	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
(Duplicate)	MW-6	7/12/2001	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	MW-6	12/18/2001	NA	ND	NA	NA	ND	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA
	CARGMW0605	6/24/2002	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW0605	6/23/2003	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW0606	6/21/2004	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW0606	7/11/2005	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	**42.3**	**1.3**	ND	ND	ND
	CARGMW0607	11/8/2006	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**0.91**	ND	ND	ND
	CARGMW0608	2/12/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**0.48**	ND	ND	ND
	CARGMW0609	5/8/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW0610	8/21/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**1.5**	ND	ND	ND
	ENSTHMPMW060609	6/28/2009	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	0.52 J	ND	ND	ND
	CARGMW060610	6/30/2010	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**2.2**	ND	ND	ND
	CARGMW060612	6/13/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**0.36**	ND	ND	ND
	CARGMW060812	8/14/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW060613	6/12/2013	2.6 J	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW6WG062714	06/27/2014	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW06WG061615	06/16/2015	0.98 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Appendix D
Groundwater Analytical Results Historical Summary
Carrier Thompson Rd. Facility

Well Number	Sample Identification	Sample Date	Acetone	Benzene	Carbon disulfide	Chloro-form	1,1-DCA	1,2-DCA	1,1-DCE	Total 1,2-DCE	trans-1,2-DCE	cis-1,2-DCE	1,1,1-TCA	1,1,2-TCA	2-Hexanone	TCE	PCE	Vinyl Chloride	MTBE
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NYSDEC Standard			50 G	1	50 G	7	5	0.6	0.7 G	N/A	5	5	5	1	N/A	5	5 G	2	N/A
MW-09	MW-9	11/16/1990	NA	NA	ND	NA	**2.4**	**1.6**	ND	NA	ND	NA	**8.8**	ND	ND	**2.8**	ND	ND	ND
	CARGMW0903	4/18/2000	ND	ND	ND	ND	1.9 J	ND	ND	2.9 J	ND	ND	3.7 J	ND	ND	4.4 J	ND	ND	ND
	CARGMW0904	7/10/2001	ND	ND	ND	ND	2.4 J	ND	ND	4.51 J	0.61 J	3.9 J	**6.6**	ND	ND	**6.2**	ND	ND	ND
	CARGMW0905	6/25/2002	ND	ND	ND	ND	1.9 J	ND	ND	NA	ND	3.3 J	**5.9**	ND	ND	**6.6**	ND	ND	ND
	CARGMW0905	6/25/2003	ND	ND	ND	ND	**2**	ND	ND	NA	ND	**3.7**	**7.1**	ND	ND	**7.1**	ND	ND	ND
	CARGMW0906	6/21/2004	ND	ND	ND	ND	**1.5**	ND	ND	NA	ND	**2.8**	**5.8**	ND	ND	**8.3**	0.57 J	ND	ND
(Duplicate)	CARHMW0906	6/21/2004	ND	ND	ND	ND	**1.5**	ND	ND	NA	ND	**2.7**	**5.6**	ND	ND	**8**	0.55 J	ND	ND
	CARGMW0906	7/11/2005	ND	ND	ND	0.25 J	**1.8**	ND	ND	NA	ND	**3.2**	**7.1**	ND	ND	**9.1**	0.67 J	ND	ND
	CARGMW0907	11/7/2006	ND	ND	ND	ND	**2**	ND	ND	NA	ND	**2.9**	**8.1**	ND	ND	**8.5**	0.39 J	ND	ND
	CARGMW0908	2/12/2007	ND	ND	ND	ND	**0.91**	ND	ND	NA	ND	**1.2**	**2.9**	ND	ND	**3.8**	ND	ND	ND
	CARGMW0909	5/8/2007	ND	ND	ND	ND	**1.1**	ND	ND	NA	ND	**1.3**	**2.8**	ND	ND	**4.6**	0.32 J	ND	ND
	CARGMW0910	8/21/2007	ND	ND	ND	ND	**2.1**	ND	ND	NA	ND	**2.3**	**6.4**	ND	ND	**7.9**	ND	ND	ND
	ENSTHMPMW090609	6/28/2009	ND	ND	ND	ND	0.89 J	ND	ND	NA	ND	0.79 J	**2.5**	ND	ND	**4.2**	ND	ND	ND
	CARGMW090610	6/30/2010	ND	ND	ND	ND	**1.3**	ND	ND	NA	ND	**1.1**	**2.5**	ND	ND	**4.9**	ND	ND	ND
	CARGMW090611	6/28/2011	ND	ND	ND	ND	0.80 J	ND	ND	NA	ND	0.47 J	**1.6**	ND	ND	**3.6**	ND	ND	ND
	CARGMW090612	6/13/2012	ND	ND	ND	ND	**0.94**	ND	ND	NA	ND	**0.67**	**1.4**	ND	ND	**3.4**	ND	ND	ND
	CARGMW090812	8/15/2012	ND	ND	ND	ND	**1.5**	ND	ND	NA	ND	**1.6**	**3.3**	ND	ND	**5.1**	ND	ND	ND
	CARGMW090613	6/11/2013	ND	ND	ND	ND	0.63 J	ND	0.20 J	NA	ND	0.58 J	1.7	ND	ND	**3.1**	0.60 J	ND	ND
	MW9WG063014	06/30/2014	ND	ND	ND	ND	0.82 J	ND	ND	NA	ND	0.43 J	0.65 J	ND	ND	**2.7**	ND	ND	ND
	MW09WG	06/17/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.72 J	ND	ND	**2.8**	ND	ND	ND
MW-10	CARG990101	4/25/1999	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGW99103	4/19/2000	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
	CARG990104	7/11/2001	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1005	6/24/2002	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1005	6/26/2003	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1006	6/21/2004	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1006	7/12/2005	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1007	11/8/2006	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1008	2/12/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
(Duplicate)	CARHMW1008	2/12/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1009	5/8/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1010	8/21/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ENSTHMPMW100609	6/28/2009	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW100610	6/29/2010	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW100612	6/14/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	**0.71**
	CARGMW100812	8/14/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	**4.4**
	CARGMW100613	6/12/2013	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	0.37 J	ND	ND	0.17 J	ND	ND	0.88 J
	MW10WG062714	06/27/2014	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	**4.5**
	MW10WG061615	06/16/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-12*	CARG990301	4/25/1999	**6.1**	ND	ND	ND	ND	ND	ND	NA	**14.1**	**5.2**	ND	ND	ND	**2.9**	ND	ND	ND
	CARGW99303	4/18/2000	ND	ND	ND	ND	ND	ND	ND	**6.5**	NA	NA	ND	ND	ND	**1.4**	ND	ND	ND
	CARG9903-04	7/11/2001	**26.5**	ND	ND	ND	ND	ND	ND	NA	1.9 J	3.9 J	ND	ND	ND	**1.1**	ND	ND	ND
	CARGMW1205	6/25/2002	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1205	6/26/2003	ND	ND	ND	ND	ND	ND	ND	NA	**4.9**	**2.7**	ND	ND	ND	**4.4**	ND	ND	ND
	CARGMW1206	6/23/2004	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1206	7/12/2005	ND	ND	ND	ND	ND	ND	ND	NA	ND	0.35 J	ND	ND	ND	0.42 J	ND	ND	ND
	CARGMW1207	11/8/2006	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1208	2/13/2007	ND	ND	ND	ND	ND	ND	ND	NA	0.89 J	0.49 J	ND	ND	ND	ND	ND	ND	ND
	CARGMW1209	5/8/2007	ND	ND	0.29 J	ND	ND	ND	ND	NA	0.99 J	0.50 J	ND	ND	ND	0.50 J	ND	ND	ND
(Duplicate)	CARGHW1209	5/8/2007	ND	ND	0.29 J	ND	ND	ND	ND	NA	0.84 J	0.50 J	ND	ND	ND	0.43 J	ND	ND	ND
	CARGMW1210	8/21/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ENSTHMPMW120609	6/28/2009	ND	ND	ND	ND	ND	ND	ND	NA	**5.5**	**2.5**	0.45 J	ND	ND	**9.0**	ND	ND	ND
	CARGMW120610	6/29/2010	ND	ND	ND	ND	ND	ND	ND	NA	**9.7**	**4.5**	0.58 J	ND	ND	**12.1**	ND	ND	ND

Appendix D
Groundwater Analytical Results Historical Summary
Carrier Thompson Rd. Facility

Well Number	Sample Identification	Sample Date	Acetone	Benzene	Carbon disulfide	Chloro-form	1,1-DCA	1,2-DCA	1,1-DCE	Total 1,2-DCE	trans-1,2-DCE	cis-1,2-DCE	1,1,1-TCA	1,1,2-TCA	2-Hexanone	TCE	PCE	Vinyl Chloride	MTBE
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NYSDEC Standard			50 G	1	50 G	7	5	0.6	0.7 G	N/A	5	5	5	1	N/A	5	5 G	2	N/A
MW - 13D*	Interval 1 : (8.7-11.8)	10/11/1999	ND	ND	NA	NA	**128**	NA	17.7 J	NA	ND	**2,440**	NA	ND	NA	**21.8**	NA	**568**	NA
	Interval 2 : (13.7-16.8)	10/11/1999	ND	ND	NA	NA	247 J	NA	57.9 J	NA	ND	**6,940**	NA	ND	NA	ND	NA	**1,850**	NA
	Interval 3 : (18.7-22)	10/11/1999	NA	NA	NA	NA	230 J	NA	55.9 J	NA	ND	**6,520**	NA	ND	NA	ND	NA	**1,720**	NA
	Interval 4 : (23.6-26.9)	10/11/1999	ND	NA	NA	NA	225 J	ND	51.8 J	NA	ND	**6,310**	NA	ND	NA	ND	NA	**1,580**	NA
	Interval 5 : (28.7-31.8)	10/11/1999	ND	NA	NA	NA	225 J	NA	56 J	NA	ND	**6,310**	NA	ND	NA	ND	NA	**1,670**	NA
904 (Diffusion	Interval 6 : NS	10/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Interval 7 : No Sample	10/11/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Interval 8 : (44.1-47.2)	10/11/1999	NA	NA	NA	NA	138 J	NA	30.2 J	NA	ND	**4,290**	NA	NA	NA	ND	NA	**1,080**	NA
	Interval 9 : (48.7-51.7)	10/11/1999	NA	NA	NA	NA	110 J	NA	24.7 J	NA	ND	**3,230**	NA	NA	NA	ND	NA	**822**	NA
	Interval 10 : (54.2-57)	10/11/1999	NA	NA	NA	NA	82.8 J	NA	18.8 J	NA	ND	**2,360**	NA	NA	NA	ND	NA	**601**	NA
MW - 13D*	Interval 1 : (9-12)	5/2/2000	ND	30 J	NA	NA	**160**	NA	**26**	**3,900**	ND	**3,900**	NA	1.1 J	NA	**36**	NA	**610**	NA
	Interval 2 : (14-17)	5/2/2000	ND	1.1 J	NA	NA	**180**	NA	**45**	**6,000**	ND	**6,000**	NA	2.5 J	NA	**12**	NA	**970**	NA
	Interval 3 : (19-22.5)	5/2/2000	NA	NA	NA	NA	**160**	NA	**34**	**5,200**	ND	**5,200**	NA	2.6 J	NA	**7.3**	NA	**830**	NA
	Interval 4 : (24.1-27)	5/2/2000	4.6 J	NA	NA	NA	**160**	1.1 J	**40**	NA	ND	**5,500**	NA	2.3 J	NA	**8.2**	NA	**690**	NA
	Interval 5 : (29.5-32)	5/2/2000	ND	NA	NA	NA	**170**	NA	**44**	**5,600**	ND	**5,600**	NA	2.3 J	NA	**8.7**	NA	**880**	NA
iffusion Sampl	Interval 6 : (34.1-37.1)	5/2/2000	NA	NA	NA	NA	**120**	NA	**29**	**4,800**	ND	**4,800**	NA	2.0 J	NA	**5.7**	NA	**560**	NA
	Interval 7 : (38.8-42)	5/2/2000	NA	NA	NA	NA	**89**	NA	**20**	**2,900**	ND	**2,900**	NA	ND	NA	3.9 J	NA	**390**	NA
	Interval 8 : (43.2-47)	5/2/2000	NA	NA	NA	NA	**61**	NA	**14**	**1,900**	ND	**1,900**	NA	NA	NA	2.6 J	NA	**280**	NA
	Interval 9 : (48-52.2)	5/2/2000	NA	NA	NA	NA	**41**	NA	**9.6**	NA	ND	**1,500**	NA	NA	NA	2.0 J	NA	**190**	NA
	Interval 10 : (54-57)	5/2/2000	NA	NA	NA	NA	**13**	NA	3.1 J	NA	ND	**390**	NA	NA	NA	ND	NA	**66**	NA
MW - 13D*	Interval 1 : (9-12)	7/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Interval 2 : (14-17)	7/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Interval 3 : (19-22.5)	7/13/2001	NA	NA	NA	NA	**137**	NA	ND	NA	ND	**4,080**	NA	ND	NA	ND	NA	**500**	NA
	Interval 4 : (24.1-27)	7/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Interval 5 : (29.5-32)	7/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
iffusion Sampl	Interval 6 : (34.1-37.1)	7/13/2001	NA	NA	NA	NA	**182**	NA	ND	NA	ND	**6,720**	NA	ND	NA	ND	NA	**1,090**	NA
	Interval 7 : (38.8-42)	7/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Interval 8 : (43.2-47)	7/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Interval 9 : (48-52.2)	7/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Interval 10 : (54-57)	7/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW - 13D*	Interval 1 : (9-11)	7/13/2001	ND	NA	NA	NA	34.4 J	NA	9.7 J	NA	ND	**1,210**	NA	NA	NA	NA	NA	**199**	NA
	Interval 2 : (14-16)	7/13/2001	ND	ND	NA	NA	32 J	NA	ND	NA	ND	**1,160**	NA	ND	NA	ND	NA	**190**	NA
	Interval 3 : (19-21)	7/13/2001	NA	NA	NA	NA	45.1 J	NA	10.3 J	NA	ND	**1,600**	NA	ND	NA	ND	NA	**230**	NA
	Interval 4 : (24-26)	7/13/2001	ND	NA	NA	NA	69.9 J	ND	ND	NA	ND	**2,390**	NA	ND	NA	ND	NA	**338**	NA
	Interval 5 : (29-31)	7/13/2001	ND	NA	NA	NA	**52**	NA	112 J	NA	ND	**1,730**	NA	ND	NA	ND	NA	**259**	NA
ow-Flow Sampl	Interval 6 : (34-36)	7/13/2001	NA	NA	NA	NA	**52.7**	NA	11.2 J	NA	ND	**1,810**	NA	ND	NA	ND	NA	**256**	NA
	Interval 7 : (39-40)	7/13/2001	NA	NA	NA	NA	61.1 J	NA	ND	NA	ND	**2,070**	NA	ND	NA	ND	NA	**332**	NA
	Interval 8 : (44-46)	7/13/2001	NA	NA	NA	NA	**54.4**	NA	11.6 J	NA	ND	**1,850**	NA	NA	NA	ND	NA	**281**	NA
	Interval 9 : (49-50)	7/13/2001	NA	NA	NA	NA	60.4 J	NA	ND	NA	ND	**1,950**	NA	NA	NA	ND	NA	**268**	NA
	Interval 10 : (54-56)	7/13/2001	NA	NA	NA	NA	43.4 J	NA	ND	NA	ND	**1,480**	NA	NA	NA	ND	NA	**219**	NA
MW - 13D*	Interval 1 : (7-10)	8/13/2002	ND	1.4 J	NA	NA	**32.6**	NA	1.7 J	NA	ND	**530**	NA	ND	NA	2.4 J	NA	**26.9**	NA
	Interval 2 : (12-15)	8/13/2002	**66.8**	ND	NA	NA	163 J	NA	41.1 J	NA	ND	**5,570**	NA	ND	NA	ND	NA	**680**	NA
	Interval 3 : (17-20)	8/13/2002	NA	NA	NA	NA	174 J	NA	41.8 J	NA	ND	**6,170**	NA	ND	NA	ND	NA	**730**	NA
	Interval 4 : (22-25)	8/13/2002	ND	NA	NA	NA	135 J	ND	ND	NA	ND	**5,140**	NA	ND	NA	ND	NA	**573**	NA
	Interval 5 : (27-30)	8/13/2002	ND	NA	NA	NA	147 J	NA	34.4 J	NA	ND	**5,360**	NA	ND	NA	ND	NA	**607**	NA
iffusion Sampl	Interval 6 : (32-35)	8/13/2002	NA	NA	NA	NA	149 J	NA	36.2 J	NA	ND	**5,350**	NA	ND	NA	ND	NA	**692**	NA
	Interval 7 : (37-40)	8/13/2002	NA	NA	NA	NA	76.4 J	NA	17.8 J	NA	ND	**2,780**	NA	ND	NA	ND	NA	**337**	NA
	Interval 8 : (42-45)	8/13/2002	NA	NA	NA	NA	69.8 J	NA	16.0 J	NA	ND	**2,660**	NA	NA	NA	ND	NA	**310**	NA
	Interval 9 : (47-50)	8/13/2002	NA	NA	NA	NA	61.4 J	NA	14.3 J	NA	ND	**2,340**	NA	NA	NA	ND	NA	**273**	NA
	Interval 10 : (54-57)	8/13/2002	NA	NA	NA	NA	**50.1**	NA	10.7 J	NA	ND	**1,720**	NA	NA	NA	ND	NA	**231**	NA

Appendix D
Groundwater Analytical Results Historical Summary
Carrier Thompson Rd. Facility

Well Number	Sample Identification	Sample Date	Acetone	Benzene	Carbon disulfide	Chloro-form	1,1-DCA	1,2-DCA	1,1-DCE	Total 1,2-DCE	trans-1,2-DCE	cis-1,2-DCE	1,1,1-TCA	1,1,2-TCA	2-Hexanone	TCE	PCE	Vinyl Chloride	MTBE
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NYSDEC Standard			50 G	1	50 G	7	5	0.6	0.7 G	N/A	5	5	5	1	N/A	5	5 G	2	N/A
MW - 13D*	Interval 1 : (7-10)	6/25/2003	**11.7**	**3.8**	NA	NA	**1.3**	NA	ND	NA	ND	**60.2**	NA	0.46 J	NA	ND	NA	**ND**	NA
	Interval 2 : (12-15)	6/25/2003	ND	ND	NA	NA	**145**	NA	15.4 J	NA	ND	**4,610**	NA	ND	NA	ND	NA	**1,070**	NA
	Interval 3 : (17-20)	6/25/2003	NA	NA	NA	NA	**150**	NA	ND	NA	ND	**5,040**	NA	ND	NA	ND	NA	**1,090**	NA
	Interval 4 : (22-25)	6/25/2003	ND	NA	NA	NA	**140**	ND	ND	NA	ND	**4,560**	NA	ND	NA	ND	NA	**1,020**	NA
	Interval 5 : (27-30)	6/25/2003	ND	NA	NA	NA	**143**	NA	ND	NA	ND	**4,870**	NA	ND	NA	ND	NA	**1,070**	NA
)iffusion Sampl	Interval 6 : (32-35)	6/25/2003	NA	NA	NA	NA	**139**	NA	22.7 J	NA	ND	**4,570**	NA	ND	NA	ND	NA	**1,050**	NA
	Interval 7 : (37-40)	6/25/2003	NA	NA	NA	NA	**70.8**	NA	10.5 J	NA	ND	**2,320**	NA	ND	NA	ND	NA	**580**	NA
	Interval 8 : (42-45)	6/25/2003	NA	NA	NA	NA	**72 / 72.7**	NA	**17.4 / 15.7**	NA	ND / ND	**1,950 / 2,250**	NA	NA	NA	ND / ND	NA	**631 / 644**	NA
	Interval 9 : (47-50)	6/25/2003	NA	NA	NA	NA	**70.3**	NA	**16.6**	NA	4.7 J	**2,040**	NA	NA	NA	ND	NA	**649**	NA
	Interval 10 : (54-57)	6/25/2003	NA	NA	NA	NA	**34.6**	NA	**6.9**	NA	ND	**1,030**	NA	NA	NA	ND	NA	**315**	NA
MW - 13D*	Interval 1 : (7-10)	6/23/2004	**36.9**	**2.2**	NA	NA	.88 J	NA	ND	NA	ND	**47.9**	NA	ND	NA	ND	NA	**ND**	NA
	Interval 2 : (12-15)	6/23/2004	ND	ND	NA	NA	**115**	NA	**31**	NA	ND	**3,820**	NA	ND	NA	ND	NA	**579**	NA
	Interval 3 : (17-20)	6/23/2004	NA	NA	NA	NA	**127**	NA	**34.4**	NA	ND	**4,210**	NA	ND	NA	ND	NA	**607**	NA
	Interval 4 : (22-25)	6/23/2004	ND	NA	NA	NA	**127**	ND	**34.3**	NA	ND	**3,860**	NA	ND	NA	ND	NA	**625**	NA
	Interval 5 : (27-30)	6/23/2004	ND	NA	NA	NA	**122**	NA	**35.9**	NA	ND	**3,870**	NA	ND	NA	ND	NA	**657**	NA
)iffusion Sampl	Interval 6 : (32-35)	6/23/2004	NA	NA	NA	NA	**127**	NA	**32.9**	NA	ND	**3,730**	NA	ND	NA	ND	NA	**663**	NA
	Interval 7 : (37-40)	6/23/2004	NA	NA	NA	NA	**43.7**	NA	**12.3**	NA	ND	**1,420**	NA	ND	NA	ND	NA	**230**	NA
	Interval 8 : (42-45)	6/23/2004	NA	NA	NA	NA	**38.3**	NA	**10.8**	NA	ND	**1,290**	NA	NA	NA	ND	NA	**200**	NA
	Interval 9 : (47-50)	6/23/2004	NA	NA	NA	NA	**32.1 / 32.3**	NA	9 J / 8.5 J	NA	ND / ND	**1,100 / 1,100**	NA	NA	NA	ND / ND	NA	**177 / 179**	NA
	Interval 10 : (54-57)	6/23/2004	NA	NA	NA	NA	**20.9**	NA	**5.5**	NA	ND	**706**	NA	NA	NA	ND	NA	**108**	NA
MW - 13D*	Interval 1 : (7-10)	7/13/2005	7.5 J	0.9 J	NA	NA	**37.9**	NA	**3.9**	NA	**1.5**	**719**	NA	ND	NA	**2.4**	NA	**13.8**	NA
	Interval 2 : (12-15)	7/13/2005	ND	ND	NA	NA	**102**	NA	**21.2**	NA	**27.8**	**3,560**	NA	ND	NA	3.2 J	NA	**400**	NA
	Interval 3 : (17-20)	7/13/2005	NA	NA	NA	NA	**89.3**	NA	**18.9**	NA	**19.3**	**3,280**	NA	ND	NA	3 J	NA	**345**	NA
	Interval 4 : (22-25)	7/13/2005	ND	NA	NA	NA	**95.7**	ND	**56 J**	NA	**22.3**	**3,420**	NA	ND	NA	3.1 J	NA	**342**	NA
	Interval 5 : (27-30)	7/13/2005	**91.3**	NA	NA	NA	**ND**	NA	**18.5**	NA	**15.9**	**3,190**	NA	ND	NA	2.9 J	NA	**330**	NA
)iffusion Sampl	Interval 6 : (32-35)	7/13/2005	NA	NA	NA	NA	**49.2**	NA	**7.2**	NA	**47**	**1,580**	NA	ND	NA	1.5 J	NA	**170**	NA
	Interval 7 : (37-40)	7/13/2005	NA	NA	NA	NA	**39.7**	NA	**5**	NA	**51.3**	**1,290**	NA	ND	NA	1.2 J	NA	**139**	NA
	Interval 8 : (42-45)	7/13/2005	NA	NA	NA	NA	**36.2 / 38.2**	NA	**4.3 / 6.6**	NA	**59.6 / 18.4**	**1,140 / 1,230**	NA	NA	NA	1.2 J / 1.1 J	NA	**130 / 154**	NA
	Interval 9 : (47-50)	7/13/2005	NA	NA	NA	NA	**25**	NA	**99**	NA	**26.2**	**923**	NA	NA	NA	1.1 J	NA	**77.3**	NA
	Interval 10 : (54-57)	7/13/2005	NA	NA	NA	NA	**29.6**	NA	**7**	NA	.92 J	**728**	NA	NA	NA	.93 J	NA	**152**	NA
MW-13D*	Interval 6 : (32-35)	11/9/2006	ND	ND	ND	ND	**23.5**	ND	**5.1**	NA	**1.6**	**577[a]**	ND	ND	ND	.75 J	ND	**121**	ND
	Interval 7 : (37-40)	11/9/2006	ND	ND	ND	ND	**19.4**	ND	**4.2**	NA	**1.1**	**542[a]**	ND	ND	ND	.67 J	ND	**106**	ND
(Diffusion	Interval 8 : (42-45)	11/9/2006	ND	ND	ND	ND	**17.7**	ND	**3.9**	NA	0.98 J	**459[a]**	ND	ND	ND	.59 J	ND	**101**	ND
Sample)	Interval 9 : (47-50)	11/9/2006	ND	ND	ND	ND	**13.5**	ND	**2.6**	NA	1.6 J	**390**	ND	ND	ND	ND	ND	**80.3**	ND
	Interval 10 : (54-57)	11/9/2006	ND	ND	ND	ND	**7.9**	ND	1.4 J	NA	ND	**219**	ND	ND	ND	ND	ND	**48**	ND
MW-13D*	Interval 6 : (32-35)	2/12/2007	ND	ND	ND	ND	**13.1**	ND	**3.7**	NA	ND	**412[a]**	ND	ND	ND	ND	ND	**87.2**	ND
	Interval 7 : (37-40)	2/12/2007	ND	ND	ND	ND	**10.1**	ND	**3.1**	NA	0.84 J	**286[a]**	ND	ND	ND	0.39 J	ND	**71**	ND
(Diffusion	Interval 8 : (42-45)	2/12/2007	ND	ND	ND	ND	**10.1**	ND	**3**	NA	0.75 J	**290[a]**	ND	ND	ND	0.39 J	ND	**71**	ND
Sample)	Interval 9 : (47-50)	2/12/2007	ND	ND	ND	ND	**7.7**	ND	**2.2**	NA	0.50 J	**221[a]**	ND	ND	ND	0.31 J	ND	**54.9**	ND
	Interval 10 : (54-57)	2/12/2007	ND	ND	ND	ND	**4.4**	ND	**1**	NA	0.44 J	**146**	ND	ND	ND	ND	ND	**26.4**	ND
MW-13D*	Interval 6 : (32-35)	5/9/2007	3.9 J	ND	ND	ND	**10.7**	ND	**3.1**	NA	**1.0**	**342[a]**	ND	ND	ND	0.43 J	ND	**105**	ND
	Interval 7 : (37-40)	5/9/2007	ND	ND	ND	ND	**7.5**	ND	**2.1**	NA	**1.3**	**227[a]**	ND	ND	ND	ND	ND	**73.6**	ND
(Diffusion	Interval 8 : (42-45)	5/9/2007	ND	ND	ND	ND	**7.0**	ND	**2.0**	NA	0.82 J	**210[a]**	ND	ND	ND	ND	ND	**72.9**	ND
Sample)	Interval 9 : (47-50)	5/9/2007	4.6 J	ND	ND	ND	**5.6**	ND	**1.5**	NA	0.56 J	**185**	ND	ND	ND	ND	ND	**57.5**	ND
	Interval 10 : (54-57)	5/9/2007	ND	ND	ND	ND	**3.1**	ND	0.96 J	NA	ND	**107**	ND	ND	ND	ND	ND	**36.2**	ND
MW-13D*	Interval 6 : (32-35)	8/21/2007	ND	ND	ND	ND	**33.8**	ND	ND	NA	ND	**1250**	ND	ND	ND	ND	ND	**132**	ND
	Interval 7 : (37-40)	8/21/2007	ND	ND	ND	ND	**25.7**	ND	ND	NA	**8.8**	**992**	ND	ND	ND	ND	ND	**103**	ND
(Diffusion	Interval 8 : (42-45)	8/21/2007	ND	ND	ND	ND	**22.8**	ND	ND	NA	3.7 J	**917**	ND	ND	ND	ND	ND	**92.9**	ND
Sample)	Interval 9 : (47-50)	8/21/2007	ND	ND	ND	ND	**18.8**	ND	ND	NA	**8.1**	**724**	ND	ND	ND	ND	ND	**72.2**	ND
	Interval 10 : (54-57)	8/21/2007	ND	ND	ND	ND	**15.5**	ND	ND	NA	**5.9**	**590**	ND	ND	ND	ND	ND	**68.9**	ND

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Well Number	Sample Identification	Sample Date	Acetone	Benzene	Carbon disulfide	Chloro-form	1,1-DCA	1,2-DCA	1,1-DCE	Total 1,2-DCE	trans-1,2-DCE	cis-1,2-DCE	1,1,1-TCA	1,1,2-TCA	2-Hexanone	TCE	PCE	Vinyl Chloride	MTBE
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NYSDEC Standard			50 G	1	50 G	7	5	0.6	0.7 G	N/A	5	5	5	1	N/A	5	5 G	2	N/A
MW-13D2	ENSTHMPMW13D20609	6/29/2009	ND	ND	ND	ND	ND	ND	ND	NA	ND	0.61 J	ND	ND	ND	ND	ND	ND	ND
Duplicate	ENSTHMPDUP10609	6/29/2009	ND	ND	ND	ND	ND	ND	ND	NA	ND	0.54 J	ND	ND	ND	ND	ND	ND	ND
	MW-13D2	9/9/2009	ND	ND	ND	ND	ND	ND	ND	NA	ND	**1.6**	ND	ND	ND	ND	ND	ND	ND
	CARGMW13D20210	2/17/2010	ND	ND	ND	ND	ND	ND	ND	NA	ND	**2.4**	ND	ND	ND	ND	ND	ND	ND
	CARGMW13D20310	3/24/2010	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW13D20610	6/29/2010	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW13D20612	6/13/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	**0.92**	ND	ND	ND	ND	ND	ND	ND
	CARGMW13D0812	8/15/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW13D20613	6/13/2013	ND	ND	ND	ND	ND	ND	ND	NA	ND	0.31 J	ND	ND	ND	ND	ND	0.24 J	ND
	MW13D2WG	6/17/2015	1.8 JB	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	0.74 J	ND
MW-14	CARGMW5S04	7/11/2001	ND	ND	ND	ND	1.2 J	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	**5.2**	ND
	CARGMW5S05	6/24/2002	ND	ND	ND	ND	ND	ND	ND	NA	ND	0.24 J	ND	ND	ND	ND	ND	ND	ND
	CARGMW1405	6/26/2003	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1406	6/22/2004	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	0.80 J	ND
	CARGMW1406	7/13/2005	ND	ND	ND	ND	ND	0.57 J	ND	NA	ND	ND	ND	ND	ND	ND	ND	**1.8**	ND
	CARGMW1407	11/8/2006	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1408	2/13/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1409	5/8/2007	ND	ND	ND	ND	ND	0.27 J	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1410	8/22/2007	ND	ND	ND	ND	0.32 J	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	0.71 J	ND
	ENSTHMPMW140609	6/29/2009	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW140611	6/29/2011	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW140612	6/14/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW140812	8/15/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW140613	6/12/2013	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	0.38 J	ND	ND	ND	ND	ND	ND
	MW14WG062714	06/27/2014	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW14WG061615	06/16/2015	2.7 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-14D	CARGMW005D	4/28/2000	8.1 J	ND	ND	3.0 J	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
	CARGMW5D04	7/11/2001	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1405	6/25/2002	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
(Duplicate)	CARHMW1405	6/25/2002	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW14D05	6/26/2003	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW14D06	6/22/2004	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW14D06	7/13/2005	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW14D07	11/8/2006	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW14D08	2/14/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
(Duplicate)	CARGMW14D08	2/14/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW14D09	5/9/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW14010	8/22/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW14D0610	6/29/2010	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW14D0611	6/29/2011	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW14D0612	6/14/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW14D0812	8/15/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW14D0613	6/12/2013	1.8 J	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW14DWG070114	7/1/2014	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW14DWG061615	6/16/2015	4 JB	ND	ND	ND	ND	ND	ND	ND	0.55 J	ND	ND	ND	ND	ND	ND	ND	ND
MW-15D*	CARGMW006	4/28/2000	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
	CARG000604	7/11/2001	**7.2**	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
	CARH000604	7/11/2001	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW15D05	6/25/2002	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW15D05	6/24/2003	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW15D06	6/23/2004	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW15D	7/12/2005	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
(Duplicate)	CARGDUP2	7/12/2005	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW15D07	11/8/2006	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
(Duplicate)	CARHMW15D07	11/8/2006	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARHMW15D08	2/14/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW15D09	5/9/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW15010	8/22/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ENSTHMPMW15D0609	6/29/2009	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW15D0610	6/29/2010	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Well Number	Sample Identification	Sample Date	Acetone	Benzene	Carbon disulfide	Chloro-form	1,1-DCA	1,2-DCA	1,1-DCE	Total 1,2-DCE	trans-1,2-DCE	cis-1,2-DCE	1,1,1-TCA	1,1,2-TCA	2-Hexanone	TCE	PCE	Vinyl Chloride	MTBE
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NYSDEC Standard			50 G	1	50 G	7	5	0.6	0.7 G	N/A	5	5	5	1	N/A	5	5 G	2	N/A
MW-16D	CARGMW00BG	4/27/2000	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW16D04	7/10/2001	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW16D05	6/24/2002	**76.8**	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW16D05	6/23/2003	**19.8**	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW16D06	6/23/2004	**1,870 D**	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW16D	7/12/2005	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW16D07	11/9/2006	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
(Duplicate)	CARHMW16D07	11/9/2006	648 J	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW16D08*	2/14/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	CARGMW16D09	5/9/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
(Duplicate)	CARHMW16D09	5/9/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ENSTHMPMW16D0609	6/28/2009	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW16D0610	6/29/2010	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW16D0611	6/28/2011	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW16D0612	6/13/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW16D0812	8/14/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW16D0613	6/12/2013	1.2 J	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW16DWG063014	06/30/2014	1.4 J	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW16DWG061615	06/16/2015	2.2 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW–17	CARG010704	7/13/2001	**6**	ND	ND	ND	ND	ND	ND	NA	2.5 J	**249**	ND	ND	ND	**42.6**	ND	**11**	ND
	CARGMW1705	6/26/2002	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1705	6/24/2003	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1706	6/23/2004	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1706	7/12/2005	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1707	11/8/2006	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1708	2/13/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW1709	5/8/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ENSTHMPMW170609	6/29/2009	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW170610	7/1/2010	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW170611	6/29/2011	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW170612	6/14/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW170812	8/14/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW170613	6/12/2013	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW17WG062714	06/27/2014	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW17WG061615	06/16/2015	0.97 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-18	CARG010804	7/13/2001	ND	ND	ND	ND	ND	ND	ND	NA	29.2 J	**7,020**	ND	ND	ND	**8,760**	ND	**505**	ND
	CARGMW1805	6/26/2002	ND	ND	ND	ND	10.6 J	ND	15.4 J	NA	35.7 J	**2,770**	ND	ND	ND	**5,580**	ND	**233**	ND
	CARGMW1805	6/24/2003	ND	ND	ND	ND	7.4 J	ND	8.5 J	NA	**19.3**	**2,740**	ND	ND	ND	**1,840 D**	ND	**134**	ND
	CARGMW1806	6/22/2004	**24.7**	ND	ND	ND	**2**	ND	ND	NA	ND	**4.8**	ND	ND	ND	0.42 J	ND	**14.9**	ND
(Duplicate)	CARGMW1806	6/22/2004	**26.1**	ND	ND	ND	**2.1**	ND	ND	NA	ND	**4.9**	ND	ND	ND	0.42 J	ND	**15.8**	ND
	CARGMW1806	7/12/2005	ND	ND	ND	ND	ND	ND	11.0 J	NA	14.5 J	**4,530**	ND	ND	ND	ND	ND	**1,680**	ND
	CARGMW1807	11/8/2006	ND	ND	ND	ND	ND	ND	**21.8**	NA	**22.3**	**7,140**[a]	ND	ND	ND	**786**	ND	**1,420**	ND
	CARGMW1808	2/13/2007	ND	ND	ND	ND	5.0 J	ND	9.9 J	NA	9.1 J	**2,280**[a]	ND	ND	ND	**211**	ND	**456**	ND
	CARGMW1809	5/8/2007	ND	ND	ND	ND	3.6 J	ND	**7.0**	NA	**7.4**	**1,790** [a]	ND	ND	ND	**57.1**	ND	**776**	ND
	CARGMW1810	8/22/2007	ND	ND	ND	ND	ND	ND	ND	NA	25.0 J	**8,770**	ND	ND	ND	ND	ND	**2,530**	ND
(Duplicate)	CARHMW1810	8/22/2007	ND	ND	ND	ND	ND	ND	ND	NA	25.0 J	**8,970**	ND	ND	ND	ND	ND	**2,610**	ND
	ENSTHMPMW180609	6/29/2009	ND	ND	ND	ND	ND	ND	0.96 J	NA	**1.3**	**221 a**	ND	ND	ND	**36.4**	ND	**4.8**	ND
	CARGMW180610	6/30/2010	ND	ND	ND	ND	ND	ND	**4.2**	NA	**7.5**	**789 a**	ND	ND	ND	**93.1**	ND	**71.4**	ND
	CARGMW180611	6/28/2011	ND	ND	ND	ND	0.62 J	ND	**4.9**	NA	**8.2**	**1,020 a**	ND	ND	ND	**73.4**	ND	**89.5**	ND
	CARGMW180612	6/13/2012	ND	ND	ND	ND	**3.4**	ND	**6.2**	NA	**10.2**	**1540 a**	ND	ND	ND	**194**	ND	**111.0**	ND
	CARGMW180812	8/15/2012	ND	ND	ND	ND	**3.3**	ND	**7.5**	NA	**6.2**	**1,560 a**	ND	ND	ND	**241**	ND	**368**	ND
	CARGMW180613	6/12/2013	ND	ND	ND	ND	5.5 J	ND	4.8 J	NA	ND	**770**	7.3 J	ND	ND	**250**	ND	**27**	ND
	MW18WG062714	06/27/2014	ND	ND	ND	ND	9.8 J	ND	4.5 J	NA	2.9 J	**300**	6.5 J	ND	ND	**370**	ND	**12**	ND
	MW18WG061815	06/18/2015	33 JB	ND	ND	ND	14 J	ND	ND	ND	ND	**180**	ND	ND	ND	**630**	ND	ND	ND

Appendix D
Groundwater Analytical Results Historical Summary
Carrier Thompson Rd. Facility
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Well Number	Sample Identification	Sample Date	Acetone	Benzene	Carbon disulfide	Chloro-form	1,1-DCA	1,2-DCA	1,1-DCE	Total 1,2-DCE	trans-1,2-DCE	cis-1,2-DCE	1,1,1-TCA	1,1,2-TCA	2-Hexanone	TCE	PCE	Vinyl Chloride	MTBE
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NYSDEC Standard			50 G	1	50 G	7	5	0.6	0.7 G	N/A	5	5	5	1	N/A	5	5 G	2	N/A
MW-19	CARGMW1901	6/28/2002	ND	ND	ND	0.32 J	ND	ND	ND	NA	ND	1.2 J	ND	ND	ND	0.71 J	ND	ND	ND
	CARGMW1905	6/25/2003	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARHMW1905	6/25/2003	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**1.4**	ND	ND	ND
	CARGMW1906	6/21/2004	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**1.5**	ND	ND	ND
	CARGMW1906	7/11/2005	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**2.4**	ND	ND	ND
	CARGMW1907	11/8/2006	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**1.2**	ND	ND	ND
	CARGMW1908	2/12/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**1.2**	ND	ND	ND
	CARGMW1909	5/8/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**1.2**	ND	ND	ND
	CARGMW1910	8/21/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**1.7**	ND	ND	ND
(Duplicate)	CARHMW1910	8/21/2007	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**1.8**	ND	ND	ND
	CARGMW190610	6/30/2010	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	0.79 J	ND	ND	ND
	CARGMW190611	6/29/2011	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**1.2**	ND	ND	ND
	CARHMW190611	6/29/2011	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**1.2**	ND	ND	ND
	CARGMW190612	6/14/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**0.87**	ND	ND	ND
	CARGMW190812	8/14/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW190613	6/12/2013	ND	ND	ND	0.19 J	ND	ND	ND	NA	ND	ND	0.27 J	ND	ND	0.81 J	ND	ND	ND
	MW19WG062714	06/27/2014	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	0.87 J	ND	ND	ND
	MW19WG061815	06/18/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.3**	ND	ND	ND
MW-20	CARGMW200610	7/1/2010	ND	ND	ND	ND	**6,610**	ND	**1,540**	NA	**103**	**5,530**	**49.1 J**	**20.5 J**	ND	**8,710**	ND	**1,010**	ND
	CARGMW200910	9/29/2010	ND	ND	ND	ND	**3,290**	5.7 J	**450**	NA	**58.8**	**3,380**	**34.6**	**17.5**	ND	**4,900**	7.1 J	**467**	ND
	CARGMW201210	1/10/2011	ND	ND	ND	ND	**5,140**	ND	**541**	NA	**99**	**6,840**	**53.5**	**24.8 J**	ND	**3,870**	ND	**759**	ND
	CARGMW200311	3/31/2011	ND	ND	ND	ND	**6,110**	12.9 J	**589**	NA	**135**	**7,490**	**60.3**	**37.8**	ND	**3,010**	10.5 J	**1,130**	ND
	CARGMW200610	6/29/2011	ND	ND	ND	1.1 J	**1,880 a**	**3.6**	**170**	NA	**42.4**	**1,640 a**	**16.2**	**11.2**	ND	**694 a**	**2.6**	**349**	ND
	CARGMW200612	6/14/2012	ND	ND	ND	**1.5**	**2920 b**	**4.7**	**250 a**	NA	**82.5**	**1110 a**	**17.4**	**15.1**	ND	**347 a**	**3.4**	**418 a**	ND
(Duplicate)	CARHMW200612	6/14/2012	ND	ND	ND	ND	**2890 a**	**4.4**	**253**	NA	**75.1**	**1120**	**17.2**	**14**	ND	**374**	**3**	**407**	ND
	CARGMW200812	8/15/2012	ND	ND	ND	**1.5**	**893 a**	ND	**153**	NA	**32.4**	**487 a**	**9.2**	**5.1**	ND	**243**	**2.0**	**285**	ND
(Duplicate)	CARGMW200613	6/13/2013	ND	ND	ND	ND	**180**	ND	**18**	NA	4.8 J	**66**	ND	ND	ND	**33**	ND	**30**	ND
	CARGMW200613	6/13/2013	ND	ND	ND	ND	**180**	ND	**17**	NA	5.1 J	**65**	2.0 J	ND	ND	**35**	ND	**26**	ND
	MW20WG063014	06/30/2014	ND	ND	ND	0.56 J	**86**	ND	**4.1**	**NA**	0.87 J	**13**	ND	ND	ND	**20**	ND	ND	ND
MW-21	CARGMW210612	6/14/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW210812	8/14/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW210613	6/12/2013	ND	ND	ND	ND	ND	ND	0.35 J	NA	ND	0.53 J	ND	ND	ND	0.8 J	ND	ND	ND
	MW21WG062714	06/27/2014	ND	ND	ND	ND	ND	ND	ND	NA	ND	0.56 J	ND	ND	ND	0.26 J	ND	0.41 J	ND
	MW21WG061615	06/16/2015	0.98 JB	ND	ND	ND	ND	ND	ND	ND	ND	**12**	ND	ND	ND	**4**	ND	ND	ND
MW-22D	CARGMW22D0612	6/13/2012	ND	ND	**0.31**	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW22D0812	8/14/2012	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	CARGMW22D0613	6/13/2013	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW22DWG063014	06/30/2014	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MW22DWG061615	06/16/2015	1.7 JB	ND	ND	ND	ND	ND	ND	ND	**3.2**	ND	ND	ND	ND	ND	ND	ND	ND

G — New York State Guidance Value
ND — Not detected above method detection limits
NA — Not Analyzed
NS — Not Samplesd as part of the Site-Wide Monitoring Plan
mg/L — milligrams per liter
µg/L — micrograms per liter
Detections highlighted in **BOLD**
J value indicates concentration is estimated and is below method detection limits.
a indicates diluted sample results.
E indicates concentration exceeds calibration range of the instrument.
* denotes that well has been abandoned

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Groundwater Analytical Results - Detections Only (October 2013 to June 2015)
at Select Non-CO Locations
Carrier Corporation Thompson Road Facility
Syracuse, New York

			Analyte	Acetone	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1-Dichloroethane	Trichloroethene	TPH DRO (C10-C28)	TPH ORO (C28-C40)	Total PCBs
			NYSDEC Groundwater Screening Limit	50	5	5	5	5	NE	NE	0.09*
			Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Sample Location:	Sample ID:	Sample Date:	Sample Type:								
Former Building TR-1 Investigation											
MW23	MW23WG061915	6/19/2015	Normal	**470 JB a**	**8500 a**	**190 J a**	**260 a**	**660 a**	NA	NA	**0.28 J a**
MW23	MW23WG062614	6/26/2014	Normal	<220 U	**8000 a**	**190 J a**	**270 a**	**660 a**	NA	NA	**0.091 a**
MW23	TR1VMW23G20131023	10/23/2013	Normal	<220 U*	**9600 a**	**110 J a**	**280 a**	**600 a**	NA	NA	NA
MW24	MW24WG061915	6/19/2015	Normal	**3.3 JB**	**55 a**	<0.73 U	**2.1**	**2.6**	NA	NA	<0.11 U
MW24	MW24WG062614	6/26/2014	Normal	<220 U	**6000 a**	<44 U	**140 J a**	**100 J a**	NA	NA	<0.036 U
MW24	TR1VMW24G20131023	10/23/2013	Normal	<110 U*	**4600 a**	<22 U	**130 a**	**81 J a**	NA	NA	NA
MW26	MW26WG061815	6/18/2015	Normal	<0.94 U	**0.81 J**	**1.5**	**1.4**	**5.9 a**	NA	NA	<0.098 U
MW26	MW26WG062514	6/25/2014	Normal	<1.1 U	**5**	<0.22 U	**2.5**	**7 a**	NA	NA	**0.039 J**
MW26	CARMW26G20131024	10/24/2013	Normal	**3.5 J**	**8.1 a**	<0.22 U	**4.2**	**22 a**	NA	NA	NA
MW27	MW27WG061815	6/18/2015	Normal	**8.4 JB**	**22 a**	<1.5 U	**13 a**	**58 a**	NA	NA	<0.098 U
MW27	MW27WG062514	6/25/2014	Normal	<1.1 U	**15 a**	**2**	**23 a**	**74 a**	NA	NA	<0.039 U
MW27	CARMW27G20131024	10/24/2013	Normal	<1.8 U*	**14 a**	**3.3**	**23 a**	**59 a**	NA	NA	NA
MW28	MW28WG061815	6/18/2015	Normal	**2.7 JB**	**29 a**	<0.44 U	**6.6 a**	**21 a**	NA	NA	<0.1 U
MW28	MW28WG062514	6/25/2014	Normal	<2.2 U	**59 a**	**1.6 J**	**15 a**	**78 a**	NA	NA	**0.061 B**
MW28	CARMW28G20131023	10/23/2013	Normal	**1.1 J**	**20 a**	**5.3 a**	**9.8 a**	**41 a**	NA	NA	NA
MW29	MW29WG061915	6/19/2015	Normal	**9.7 JB**	**19 a**	<2.9 U	**8.7 a**	**200 a**	NA	NA	<0.095 U
MW29	MW29WG062514	6/25/2014	Normal	<5.5 U	**27 a**	**1.8 J**	**12 a**	**390 a**	NA	NA	<0.036 U
MW29	CARMW29G20131107	11/7/2013	Normal	<4.4 U	**29 a**	**6 a**	**18 a**	**360 a**	NA	NA	NA
MW30	MW30WG061815	6/18/2015	Normal	<16 U	**83 a**	<7.3 U	**480 a**	**7.6 J a**	NA	NA	<0.1 U
MW30	MW30WG062614	6/26/2014	Normal	**2.4 J**	**7.8 a**	<0.22 U	**8.7 a**	**9.6 a**	NA	NA	<0.036 U
MW30	CARMW30G20131107	11/7/2013	Normal	**4 J**	**16 a**	<0.22 U	**15 a**	**12 a**	NA	NA	NA
MW32	MW32WG061915	6/19/2015	Normal	**11 JB**	**120 a**	**7.8 a**	**210 a**	**48 a**	NA	NA	<0.11 U
MW32	MW32WG062514	6/25/2014	Normal	<5.5 U	**110 a**	**13 a**	**190 a**	**42 a**	NA	NA	<0.036 U
MW32	CARMW32G20131025	10/25/2013	Normal	**8.2 J**	**150 a**	**33 a**	**220 a**	**40 a**	NA	NA	NA
MW34	MW34WG061815	6/18/2015	Normal	**23 JB**	**110 a**	<7.3 U	**590 a**	**14 J a**	NA	NA	<0.095 U
MW34	MW34WG062614	6/26/2014	Normal	<1.1 U	**3.3**	<0.22 U	**11 a**	**2.1**	NA	NA	<0.036 U
MW34	CARMW34G20131024	10/24/2013	Normal	**3.3 J**	**2.9**	<0.22 U	**17 a**	**1.7**	NA	NA	NA
MW35D	MW35DWG061615	6/16/2015	Normal	<0.94 U	<0.26 U	<0.44 U	<0.3 U	<0.22 U	NA	NA	<0.095 U
MW35D	MW35DWG062614	6/26/2014	Normal	<1.1 U	<0.17 U	<0.22 U	<0.15 U	<0.17 U	NA	NA	<0.036 U
MW35D	CARMW35DG20131028	10/28/2013	Normal	**2.5 J**	<0.17 U*	<0.22 U*	<0.15 U*	<0.17 U*	NA	NA	NA
MW36	MW36WG062215	6/22/2015	Normal	**1600 JB a**	**2400 a**	<440 U	<300 U	**35000 a**	NA	NA	<0.096 U
MW36	MW36090314	9/4/2014	Normal	<6800 U	**2400 a**	<440 U	<520 U	**40000 a**	NA	NA	<0.042 U
MW36	CARMW36G20131108	11/8/2013	Normal	<550 U	**980 a**	<110 U	<75 U	**47000 a**	NA	NA	NA
MW36	CARMW36H20131108	11/8/2013	Field Duplicate	<550 U	**900 a**	<110 U	<75 U	**45000 a**	NA	NA	NA
MW37	MW37WG062215	6/22/2015	Normal	**2500 JB a**	**1800 a**	<730 U	<500 U	**52000 a**	NA	NA	<0.097 U
MW37	MW37WGDUPE062215	6/22/2015	Field Duplicate	**2000 JB a**	**1700 a**	<730 U	<500 U	**51000 a**	NA	NA	<0.096 U
MW37	MW37WG062614	6/26/2014	Normal	<2800 U	**870 J a**	<550 U	<380 U	**68000 a**	NA	NA	<0.036 U
MW37	CARMW37G20131024	10/24/2013	Normal	<920 U*	**880 a**	<180 U	<120 U	**41000 a**	NA	NA	NA
MW38	MW38WG061815	6/18/2015	Normal	**2.7 JB**	**7.1 a**	<0.44 U	<0.3 U	**18 a**	NA	NA	<0.095 U
MW38	MW38WG062614	6/26/2014	Normal	<1.1 U	**1.1**	<0.22 U	<0.15 U	**7.6 a**	NA	NA	**0.2 a**
MW38	CARMW38G20131030	10/30/2013	Normal	<1.1 U	**10 a**	<0.22 U	<0.15 U	**29 a**	NA	NA	NA
MW39	MW39WG061915	6/19/2015	Normal	**3.7 JB**	**30 a**	<1.1 U	**1.1 J**	**83 a**	NA	NA	<0.095 U
MW39	MW39WG062614	6/26/2014	Normal	<4.4 U	**37 a**	<0.88 U	<0.6 U	**100 a**	NA	NA	<0.036 U
MW39	CARMW39G20131024	10/24/2013	Normal	**10 J**	**63 a**	<1.1 U	<0.75 U	**230 a**	NA	NA	NA
MW40D	MW40DWG061615	6/16/2015	Normal	<0.94 U	<0.26 U	<0.44 U	<0.3 U	<0.22 U	NA	NA	<0.097 U
MW40D	MW40DWG062614	6/26/2014	Normal	<1.1 U	<0.17 U	<0.22 U	<0.15 U	<0.17 U	NA	NA	<0.036 U
MW40D	CARMW40DG20131030	10/30/2013	Normal	<1.1 U	<0.17 U	<0.22 U	<0.15 U	<0.17 U	NA	NA	NA

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Groundwater Analytical Results - Detections Only (October 2013 to June 2015)
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Carrier Corporation Thompson Road Facility
Syracuse, New York

			Analyte	Acetone	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1-Dichloroethane	Trichloroethene	TPH DRO (C10-C28)	TPH ORO (C28-C40)	Total PCBs
			NYSDEC Groundwater Screening Limit	50	5	5	5	5	NE	NE	0.09*
			Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Sample Location:	Sample ID:	Sample Date:	Sample Type:								
Parking Lot R Investigation											
MW41D	MW41DWG	6/17/2015	Normal	<0.94 U	<0.26 U	<0.44 U	<0.3 U	<0.22 U	<190 U	<190 U	<0.095 U
MW41D	MW41DWG062414	6/24/2014	Normal	<1.1 U	<0.17 U	<0.22 U	<0.15 U	<0.17 U	NA	NA	<0.036 U
MW41D	CARMW41DG20131111	11/11/2013	Normal	<1.1 U	<0.17 U	<0.22 U	<0.15 U	<0.17 U	NA	NA	NA
MW42	MW42WG	6/17/2015	Normal	<0.94 U	**6.4 a**	<0.44 U	**1.4**	**7.5 a**	<200 U	<200 U	<0.095 U
MW42	MW42WG062414	6/24/2014	Normal	**1.1 J**	**0.7 J**	<0.22 U	<0.15 U	**0.59 J**	NA	NA	<0.04 U
MW42	CARMW42G20131112	11/12/2013	Normal	<1.1 U	**10 a**	<0.22 U	**1.2**	**9 a**	NA	NA	NA
MW43	MW43WG062315	6/23/2015	Normal	**0.96 JB**	**0.66 J**	<0.44 U	<0.3 U	**4.6**	**1500**	**700**	<0.095 U
MW43	MW43WG062414	6/24/2014	Normal	<5.5 U	**21 a**	<1.1 U	<0.75 U	**400 a**	**570**	**220 J**	<0.036 U
MW43	CARMW43G20131112	11/12/2013	Normal	**3.2 J**	<0.17 U	<0.22 U	<0.15 U	**5.7 a**	NA	NA	NA
MW44	MW44WG062215	6/22/2015	Normal	**1.1 JB**	**0.34 J**	**2.1**	**1.1**	**9.9 a**	<190 U	<190 U	<0.096 U
MW44	MW44WG062414	6/24/2014	Normal	**1.5 J**	**1.6**	**3.1**	**4**	**15 a**	NA	NA	**0.061**
MW44	CARMW44G20131108	11/8/2013	Normal	**4.6 J**	**1.1**	**2.7**	**2**	**11 a**	NA	NA	NA
MW45	MW45WG062315	6/23/2015	Normal	**5.6 JB**	**12 a**	<1.5 U	<1 U	**78 a**	**460 J**	**290 J**	<0.096 U
MW45	MW45WG062414	6/24/2014	Normal	**2.1 J**	**2.1**	<0.22 U	<0.15 U	**33 a**	**670 H**	**400 JH**	<0.036 U
MW45	CARMW45G20131108	11/8/2013	Normal	**3.4 J**	**20 a**	<0.55 U	<0.38 U	**190 a**	NA	NA	NA
MW47	MW47WG	6/17/2015	Normal	**2.2 JB**	<0.26 U	<0.44 U	<0.3 U	<0.22 U	**2800**	**410 J**	<0.11 U
MW47	MW47WG062314	6/23/2014	Normal	<1.1 U	<0.17 U	<0.22 U	<0.15 U	<0.17 U	**1900**	**360 J**	<0.036 U
MW47	CARMW47G20131112	11/12/2013	Normal	**1.9 J**	<0.17 U	<0.22 U	<0.15 U	<0.17 U	NA	NA	NA
MW48	MW48WG062315	6/23/2015	Normal	<9.4 U	**230 a**	<4.4 U	<3 U	**97 a**	**720**	**460 J**	<0.11 U
MW48	MW48WG062414	6/24/2014	Normal	<44 U	**900 a**	<8.8 U	<6 U	**500 a**	NA	NA	<0.036 U
MW48	CARMW48620131113	11/13/2013	Normal	<11 U	**290 a**	<2.2 U	<1.5 U	**690 a**	NA	NA	NA
MW49	MW49WG062215	6/22/2015	Normal	**1.4 JB**	**1.7**	<0.44 U	**3.6**	**2**	**1000**	<190 U	<0.096 U
MW49	MW49WG062414	6/24/2014	Normal	<1.1 U	**1.5**	**0.73 J**	**3.6**	**2.3**	NA	NA	<0.072 U
MW49	CARMW49G20131112	11/12/2013	Normal	**1.3 J**	**2.6**	**0.68 J**	**2.5**	**0.95 J**	NA	NA	NA
MW50	MW50WG	6/17/2015	Normal	**1.5 JB**	<0.26 U	<0.44 U	<0.3 U	<0.22 U	**1200**	**350 J**	<0.098 U
MW50	MW50WG062314	6/23/2014	Normal	<1.1 U	<0.17 U	<0.22 U	<0.15 U	**0.18 J**	NA	NA	<0.036 U
MW50	CARMW50G20131111	11/11/2013	Normal	**1.6 J**	<0.17 U	<0.22 U	**0.49 J**	**0.38 J**	NA	NA	NA

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Groundwater Analytical Results - Detections Only (October 2013 to June 2015)
at Select Non-CO Locations
Carrier Corporation Thompson Road Facility
Syracuse, New York

			Analyte	Acetone	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1-Dichloroethane	Trichloroethene	TPH DRO (C10-C28)	TPH ORO (C28-C40)	Total PCBs
			NYSDEC Groundwater Screening Limit	50	5	5	5	5	NE	NE	0.09*
			Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Sample Location:	Sample ID:	Sample Date:	Sample Type:								
MH3 Oil Source Investigation											
MW51	MW51WG062315	6/23/2015	Normal	**5.3 JB**	**56 a**	**5.9 a**	**9.1 a**	**83 a**	**250 J**	**220 J**	<0.095 U
MW51	MW51WG120814	12/8/2014	Normal	<5.7 U	**33 a**	**4.8**	**5.7 a**	**38 a**	**140 J**	<100 U	<0.095 U
MW51	MW51WG062014	6/20/2014	Normal	<1.4 U	**50 a**	**5.9 a**	**8.9 a**	**77 a**	<100 U	<100 U	<0.038 U
MW51	CARMW51G0514	5/30/2014	Normal	<2.8 U	**52 a**	**5.6 a**	**9.1 a**	**85 a**	NA	NA	<0.095 U
MW52	MW52WG062315	6/23/2015	Normal	**19 JB**	**130 a**	<4.9 U	<3.3 U	**18 a**	**3200**	**830**	<0.099 U
MW52	MW52WG120814	12/8/2014	Normal	<98 U	**670 a**	<6.3 U	<7.4 U	**14 J a**	**3700**	**360 J**	<0.096 U
MW52	MW52WG062014	6/20/2014	Normal	<37 U	**1300 a**	<7.3 U	<5 U	<5.7 U	**3100**	**730**	<0.038 U
MW52	CARMW52G0514	5/30/2014	Normal	<22 U	**280 a**	<4.4 U	<3 U	**670 a**	NA	NA	<0.095 U
MW53	MW53WG061915	6/19/2015	Normal	<190 U	**3900 a**	<88 U	<60 U	**200 a**	**590**	**260 J**	<0.095 U
MW53	MW53WG120514	12/5/2014	Normal	<68 U	**1400 a**	<4.4 U	<5.2 U	**10 J a**	**2100**	**430 J**	<0.096 U
MW53	MW53WG062014	6/20/2014	Normal	<460 U	**7100 a**	<92 U	<63 U	<71 U	**1100**	**520**	<0.038 U
MW54	MW54WG063015	6/30/2015	Normal	<0.94 U	<0.26 U	<0.44 U	**0.31 J**	<0.22 U	NA	NA	NA
PLR002	PLR002WG062315	6/23/2015	Normal	**39 JB**	**120 a**	<15 U	**25 J a**	**760 a**	<230 U	<230 U	<0.099 U
PLR002	PLR002WG062414	6/24/2014	Normal	<44 U	**100 a**	<8.8 U	**23 J a**	**2000 a**	NA	NA	<0.037 U
PLR002	CARPLR00220131113	11/13/2013	Normal	**65 J a**	**81 a**	<11 U	**37 J a**	**2600 a**	NA	NA	NA
PLR056	PLR056WG062315	6/23/2015	Normal	**4.4 JB**	**77 a**	<0.88 U	**0.88 J**	**89 a**	NA	NA	NA
PLR056	PLR056WG111214	11/12/2014	Normal	<140 U	**800 a**	<8.8 U	<10 U	**1200 a**	**490 J**	**240 J**	<0.044 U
PLR056	PLR056WG062014	6/20/2014	Normal	<4.4 U	**150 a**	<0.88 U	**1.1 J**	**310 a**	NA	NA	NA
PLR057	PLR057WG	6/17/2015	Normal	**3.2 JB**	<0.26 U	<0.44 U	**0.38 J**	<0.22 U	NA	NA	NA
PLR057	PLR057WG111114	11/11/2014	Normal	<3.4 U	**0.66 J**	<0.22 U	<0.26 U	**1.4**	**660**	**150 J**	<0.1 U
PLR057	PLR057WG062014	6/20/2014	Normal	**1.7 J**	**0.26 J**	<0.22 U	**0.19 J**	**0.59 J**	**450 J**	**190 J**	<0.038 U
PLR057	PLR057G0514	5/30/2014	Normal	**7.4 J**	**0.24 J**	<0.22 U	**0.18 J**	**0.49 J**	NA	NA	<0.095 U
PLR058	PLR058WG111214	11/12/2014	Normal	**20**	**0.98 J**	<0.22 U	**1.5**	**2**	**22000**	**2700 J**	**0.11 a**
PLR058	PLR058WG061914	6/19/2014	Normal	**23**	<0.17 U	**0.25 J**	**2.9**	<0.17 U	**31000**	**12000**	<0.1 U
PLR058	PLR058G0514	5/30/2014	Normal	**12 J**	<1.7 U	<2.2 U	**3.4 J**	<1.7 U	NA	NA	<0.095 U
PLR05B	PLR05BWG062215	6/22/2015	Normal	**9.1 JB**	**0.44 J**	<0.44 U	**2.3**	<0.22 U	NA	NA	NA
PLR05B	PLR05BWGDUPE062215	6/22/2015	Field Duplicate	**7.2 JB**	**0.98 J**	<0.44 U	**1.7**	**0.27 J**	NA	NA	NA
PLR060	PLR060WG062215	6/22/2015	Normal	**1.9 JB**	**4.4**	<0.44 U	<0.3 U	**30 a**	NA	NA	NA
PLR060	PLR060WGDUPE062215	6/22/2015	Field Duplicate	<4.7 U	**59 a**	<2.2 U	<1.5 U	**280 E a**	NA	NA	NA
PLR060	PLR060WG120914	12/9/2014	Normal	<3.4 U	**1.3**	<0.22 U	<0.26 U	**6.7 a**	**650**	**280 J**	<0.096 U
PLR060	PLR060WG062014	6/20/2014	Normal	**3.2 J**	**0.59 J**	<0.22 U	<0.15 U	**16 a**	**280 J**	**240 J**	<0.038 U
PLR060	PLR060G0514	5/30/2014	Normal	**16**	**1.7**	<0.22 U	<0.15 U	**17 a**	NA	NA	<0.095 U
PLR061	PLR061WG062315	6/23/2015	Normal	<0.94 U	**34 a**	<0.44 U	<0.3 U	**38 a**	NA	NA	NA
PLR061	PLR061WG120914	12/9/2014	Normal	<170 U	**500 a**	<11 U	<13 U	**1200 a**	**850**	**270 J**	<0.095 U
PLR061	PLR061WG062014	6/20/2014	Normal	<1400 U	**17000 a**	<280 U	<190 U	**64000 a**	**570**	**210 J**	<0.044 U
PLR061	PLR061G0514	5/29/2014	Normal	<2800 U	**13000 a**	<550 U	<380 U	**56000 a**	NA	NA	<0.099 U

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Groundwater Analytical Results - Detections Only (October 2013 to June 2015)
at Select Non-CO Locations
Carrier Corporation Thompson Road Facility
Syracuse, New York

			Analyte	Acetone	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	1,1-Dichloroethane	Trichloroethene	TPH DRO (C10-C28)	TPH ORO (C28-C40)	Total PCBs
			NYSDEC Groundwater Screening Limit	50	5	5	5	5	NE	NE	0.09*
			Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Sample Location:	Sample ID:	Sample Date:	Sample Type:								
Former Building TR-3 North Wall Investigation											
MW54D	MW54DWG063015	6/30/2015	Normal	<0.94 U	<0.26 U	<0.44 U	<0.3 U	<0.22 U	NA	NA	NA
MW54D	MW54DWG062615	6/26/2015	Normal	NA	NA	NA	NA	NA	<200 U	<200 U	<0.1 U
MW54D	MW54DWG111414	11/14/2014	Normal	<3.4 U	<0.2 U	<0.22 U	<0.26 U	<0.15 U	<100 U	<100 U	<0.1 U
MW55	MW55WG061815	6/18/2015	Normal	**1.8 JB**	**6.3 a**	<0.44 U	<0.3 U	**0.31 J**	**610**	**190 J**	<0.095 U
MW55	MW55WG120514	12/5/2014	Normal	<14 U	**260 a**	<0.88 U	<1 U	**3.2 J**	**1100**	**330 J**	<0.096 U
MW56	MW56WG061915	6/19/2015	Normal	**160 JB a**	**2900 a**	<44 U	<30 U	<22 U	**560**	**300 J**	<0.095 U
MW56	MW56WG120514	12/5/2014	Normal	<340 U	**7800 a**	<22 U	<26 U	**110 a**	**1000**	**180 J**	<0.095 U
MW57	MW57WG061815	6/18/2015	Normal	<0.94 U	**6.4 a**	<0.44 U	<0.3 U	**0.55 J**	**860**	**270 J**	<0.095 U
MW57	MW57WG120514	12/5/2014	Normal	<3.4 U	**23 a**	<0.22 U	<0.26 U	**0.74 J**	**2000**	**570**	<0.095 U
MW58	MW58WG061915	6/19/2015	Normal	<24 U	**740 a**	<11 U	<7.5 U	**98 a**	<200 U	<200 U	<0.095 U
MW58	MW58WGDUPE061915	6/19/2015	Field Duplicate	**30 JB**	**920 a**	<11 U	<7.5 U	**150 a**	<190 U	<190 U	<0.095 U
MW58	MW58WG120414	12/4/2014	Normal	<98 U	**570 a**	<6.3 U	<7.4 U	**300 a**	**220 J**	**100 J**	<0.095 U
MW59	MW59WG	6/17/2015	Normal	<0.94 U	**0.27 J**	<0.44 U	<0.3 U	<0.22 U	<190 U	<190 U	<0.095 U
MW59	MW59WG120214	12/2/2014	Normal	**11**	<0.2 U	<0.22 U	<0.26 U	<0.15 U	<110 U	<110 U	<0.095 U
MW60	MW60WG061815	6/18/2015	Normal	<24 U	**630 a**	<11 U	<7.5 U	**210 a**	<190 U	<190 U	<0.097 U
MW60	MW60WGDUPE	6/18/2015	Field Duplicate	<24 U	**630 a**	<11 U	<7.5 U	**220 a**	<190 U	<190 U	<0.096 U
MW60	MW60WG120914	12/9/2014	Normal	<170 U	**910 a**	<11 U	<13 U	**590 a**	<100 U	<100 U	<0.096 U
MW61	MW61WG061815	6/18/2015	Normal	<0.94 U	**4.1**	<0.44 U	<0.3 U	**12 a**	NA	NA	NA
MW61	MW61WG120914	12/9/2014	Normal	<34 U	**76 a**	<2.2 U	<2.6 U	**210 a**	**1200**	**220 J**	<0.095 U
MW62	MW62WG061915	6/19/2015	Normal	<0.94 U	**2.8**	<0.44 U	<0.3 U	**0.28 J**	NA	NA	NA
MW62	MW62WG120914	12/9/2014	Normal	<3.4 U	**1.7**	<0.22 U	<0.26 U	**3.8**	**2500**	**270 J**	<0.096 U
MW65	MW65WG061815	6/18/2015	Normal	<0.94 U	**15 a**	<0.44 U	<0.3 U	**11 a**	<200 U	<200 U	<0.097 U
MW65	MW65WG120414	12/4/2014	Normal	<3.4 U	**11 a**	<0.22 U	<0.26 U	**10 a**	**400 J**	**210 J**	<0.099 U
MW66	MW66WG061815	6/18/2015	Normal	<3.8 U	**140 a**	<1.8 U	<1.2 U	**20 a**	<200 U	<200 U	<0.098 U
MW66	MW66WG120414	12/4/2014	Normal	<11 U	**77 a**	<0.73 U	<0.87 U	**69 a**	<100 U	<100 U	<0.095 U
MW67	MW67WG	6/17/2015	Normal	**1.2 JB**	<0.26 U	<0.44 U	<0.3 U	<0.22 U	<190 U	<190 U	<0.095 U
MW67	MW67WG120214	12/2/2014	Normal	<3.4 U	<0.2 U	<0.22 U	<0.26 U	**0.2 J**	**360 J**	<100 U	<0.095 U
MW68	MW68WG	6/17/2015	Normal	**6.1 JB**	<0.26 U	<0.44 U	<0.3 U	<0.22 U	<200 U	<200 U	<0.099 U
MW68	MW68WG120214	12/2/2014	Normal	<3.4 U	<0.2 U	<0.22 U	<0.26 U	<0.15 U	**160 J**	<100 U	<0.095 U

µg/L = micrograms per liter.

U = Non-detect. If highlighted, detection limit exceeds screening limit.

NA = Sample not analyzed for analyte.

Bold = Concentration is greater than method detection limit.

a = Concentration exceeds December 2006 NYSDEC 6 NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations.

Highlighted cell indicates exceedance of standard.

J = Result is less than the method reporting limit but greater than method detection limit.

B = Analyte was detected in both the sample and the blank sample.

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GROUNDWATER ANALYTICAL RESULTS - DETECTIONS ONLY
APRIL 2016 TO NOVEMBER 2017
UTC/CARRIER THOMPSON ROAD SITE
SYRACUSE, NEW YORK

Location ID		AR-MW-01	AR-MW-02	AR-MW-02	AR-MW-03	AR-MW-04
Sample ID		AR-MW01	AR-MW02	AR-MW-02	AR-MW03	AR-MW04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/18/16	04/18/16	11/13/17	04/18/16	04/18/16
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1 U	1 U	1.00 U	1 U	1 U
1,1-Dichloroethane	UG/L	1 U	1 U	1.00 U	1 U	1 U
1,1-Dichloroethene	UG/L	1 U	1 U	1.00 U	1 U	1 U
1,2-Dichloroethene (cis)	UG/L	1 U	1 U	1.00 U	1 U	1 U
1,2-Dichloroethene (trans)	UG/L	1 U	1 U	1.00 U	1 U	1 U
1,4-Dioxane	UG/L	NA	NA	20.0 U	NA	NA
Acetone	UG/L	10 UR	10 UR	1.88 J	10 UR	10 UR
Benzene	UG/L	0.5 U	0.5 U	1.00 U	0.5 U	0.5 U
Chloroform	UG/L	1 U	1 U	1.00 U	1 U	1 U
Ethylbenzene	UG/L	1 U	1 U	1.00 U	1 U	1 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 UR	10 UR	2.00 U	10 UR	10 UR
Methyl tert-butyl ether	UG/L	NA	NA	1.00 U	NA	NA
Tetrachloroethene	UG/L	1 U	1 U	1.00 U	1 U	1 U
Toluene	UG/L	1 U	1 U	1.00 U	1 U	1 U
Trichloroethene	UG/L	1 U	1 U	1.00 U	1 U	1 U
Vinyl chloride	UG/L	1 U	1 U	1.00 U	1 U	1 U
Xylene (total)	UG/L	1 U	1 U	3.00 U	1 U	1 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	0.16 U	0.16 U	NA	0.16 U	0.16 U

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Detection Limits shown are PQL

GROUNDWATER ANALYTICAL RESULTS - DETECTIONS ONLY
APRIL 2016 TO NOVEMBER 2017
UTC/CARRIER THOMPSON ROAD SITE
SYRACUSE, NEW YORK

Location ID		AR-MW-05	AR-MW-06	AR-MW-06	AR-SB-02	AR-SB-04
Sample ID		AR-MW05	AR-MW06	AR-MW-06	AR-SB02	AR-SB04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/18/16	04/18/16	11/13/17	04/18/16	04/18/16
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1 U	1 U	1.00 U	1 U	1 U
1,1-Dichloroethane	UG/L	1 U	0.98 J	1.00 U	1 U	1 U
1,1-Dichloroethene	UG/L	1 U	1.6	1.00 U	1 U	1 U
1,2-Dichloroethene (cis)	UG/L	1 U	393	6.78	1 U	0.52 J
1,2-Dichloroethene (trans)	UG/L	1 U	1 U	1.00 U	1 U	1 U
1,4-Dioxane	UG/L	NA	NA	20.0 U	NA	NA
Acetone	UG/L	10 UR	10 UR	1.65 J	10 UR	10 UR
Benzene	UG/L	0.5 U	0.5 U	1.00 U	0.5 U	0.5 U
Chloroform	UG/L	1 U	1 U	1.00 U	1 U	1 U
Ethylbenzene	UG/L	1 U	1 U	1.00 U	1 U	1 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 UR	10 UR	2.00 U	10 UR	10 UR
Methyl tert-butyl ether	UG/L	NA	NA	1.00 U	NA	NA
Tetrachloroethene	UG/L	1 U	0.61 J	1.00 U	1 U	1 U
Toluene	UG/L	1 U	6.4	1.00 U	1 U	1 U
Trichloroethene	UG/L	1 U	91.0	4.75	1 U	1 U
Vinyl chloride	UG/L	1 U	16.0	0.50 J	1 U	1 U
Xylene (total)	UG/L	1 U	1 U	3.00 U	1 U	1 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	NA	0.16 U	NA	0.16 U	0.063 J

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Detection Limits shown are PQL

GROUNDWATER ANALYTICAL RESULTS - DETECTIONS ONLY
APRIL 2016 TO NOVEMBER 2017
UTC/CARRIER THOMPSON ROAD SITE
SYRACUSE, NEW YORK

Location ID		DP-MW-01	DP-MW-02	DP-MW-03	DP-MW-04	DP-MW-04
Sample ID		DP-MW01	DP-MW02	DP-MW03	DP-MW04	DP-MW-04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/18/16	04/18/16	04/18/16	04/18/16	11/14/17
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1.00 U
1,1-Dichloroethane	UG/L	1 U	1 U	1 U	1 U	1.00 U
1,1-Dichloroethene	UG/L	1 U	1 U	1 U	1 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	0.34 J	1 U	1 U	1 U	1.00 U
1,2-Dichloroethene (trans)	UG/L	1 U	1 U	1 U	1 U	1.00 U
1,4-Dioxane	UG/L	NA	NA	NA	NA	20.0 U
Acetone	UG/L	10 U	10 U	10 U	3.2 J	10.0 U
Benzene	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	1.00 U
Chloroform	UG/L	1 U	1 U	1 U	1 U	1.00 U
Ethylbenzene	UG/L	1 U	1 U	1 U	1 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	10 U	10 U	2.00 U
Methyl tert-butyl ether	UG/L	NA	NA	NA	NA	1.00 U
Tetrachloroethene	UG/L	1 U	1 U	1 U	1 U	1.00 U
Toluene	UG/L	1 U	1 U	1 U	1 U	1.00 U
Trichloroethene	UG/L	1 U	1 U	1 U	1 U	1.00 U
Vinyl chloride	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1.00 U
Xylene (total)	UG/L	1 U	1 U	1 U	1 U	3.00 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	0.16 U	0.14 U	0.25 U	0.28 U	NA

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Detection Limits shown are PQL

GROUNDWATER ANALYTICAL RESULTS - DETECTIONS ONLY
APRIL 2016 TO NOVEMBER 2017
UTC/CARRIER THOMPSON ROAD SITE
SYRACUSE, NEW YORK

Location ID		DP-MW-05	DP-MW-05	MW-03D	MW-03S	MW-08
Sample ID		DP-FD-041816	DP-MW05	MW-03D	MW-03S	MW-08
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/18/16	04/18/16	11/09/17	11/09/17	02/08/17
Parameter	Units	Field Duplicate (1-1)				
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1 U	1 U	1.00 U	10.0 U	1.00 U
1,1-Dichloroethane	UG/L	1 U	1 U	0.34 J	20.4	1.00 U
1,1-Dichloroethene	UG/L	1 U	1 U	1.00 U	10.0 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	1 U	1 U	9.78	729	1.00 U
1,2-Dichloroethene (trans)	UG/L	1 U	1 U	1.00 U	10.0 U	1.00 U
1,4-Dioxane	UG/L	NA	NA	20.0 U	200 U	20.0 U
Acetone	UG/L	10 UR	10 UR	10.0 U	100 U	10.0 UJ
Benzene	UG/L	0.5 U	0.5 U	1.00 U	10.0 U	1.00 U
Chloroform	UG/L	1 U	1 U	1.00 U	10.0 U	1.00 U
Ethylbenzene	UG/L	1 U	1 U	1.00 U	10.0 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	2.00 U	20.0 U	2.00 U
Methyl tert-butyl ether	UG/L	NA	NA	1.00 U	10.0 U	1.00 U
Tetrachloroethene	UG/L	1 U	1 U	1.00 U	10.0 U	1.00 UJ
Toluene	UG/L	1 U	1 U	1.00 U	10.0 U	1.00 U
Trichloroethene	UG/L	1 U	1 U	1.00 U	10.0 U	1.00 UJ
Vinyl chloride	UG/L	1 UJ	1 UJ	1.00 U	55.3	1.00 U
Xylene (total)	UG/L	1 U	1 U	3.00 U	30.0 U	1.00 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	0.26 U	0.25 U	NA	NA	0.256 U

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Detection Limits shown are PQL

GROUNDWATER ANALYTICAL RESULTS - DETECTIONS ONLY
APRIL 2016 TO NOVEMBER 2017
UTC/CARRIER THOMPSON ROAD SITE
SYRACUSE, NEW YORK

Location ID		MW-09	MW-10	MW-14	MW-17	MW-18
Sample ID		MW-09	MW-10	MW-14	MW-17	MW-18
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/10/17	11/09/17	11/13/17	11/10/17	11/13/17
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.05	1.00 U	1.00 U	1.00 U	100 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	51.0 J
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
1,2-Dichloroethene (cis)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	6,640
1,2-Dichloroethene (trans)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	38.0 J
1,4-Dioxane	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	2,000 U
Acetone	UG/L	10.0 UR	10.0 UR	1.43 J	10.0 UR	1,000 U
Benzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Chloroform	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Ethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Methyl ethyl ketone (2-Butanone)	UG/L	2.00 UR	2.00 UR	2.00 U	2.00 UR	200 U
Methyl tert-butyl ether	UG/L	1.00 U	0.31 J	1.00 U	0.33 J	100 U
Tetrachloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Toluene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	100 U
Trichloroethene	UG/L	2.84	1.00 U	1.00 U	1.00 U	3,950
Vinyl chloride	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1,840
Xylene (total)	UG/L	3.00 U	3.00 U	3.00 U	3.00 U	300 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Detection Limits shown are PQL

GROUNDWATER ANALYTICAL RESULTS - DETECTIONS ONLY
APRIL 2016 TO NOVEMBER 2017
UTC/CARRIER THOMPSON ROAD SITE
SYRACUSE, NEW YORK

Location ID		MW-19	MW-21	MW-23	MW-23	MW-26
Sample ID		MW-19	MW-21	FD-110917	MW-23	MW-26
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/09/17	11/10/17	11/09/17	11/09/17	11/09/17
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.00 U	79.0 J	97.0 J	1.17
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	271	261	0.52 J
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	1.00 U	1.04	5,970	4,020	1.00 U
1,2-Dichloroethene (trans)	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	2,000 U	2,000 U	20.0 U
Acetone	UG/L	10.0 UR	10.0 UR	1,000 UR	1,000 UR	10.0 U
Benzene	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
Chloroform	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
Ethylbenzene	UG/L	1.00 U	1.00 U	100 U	50.0 J	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	2.00 UR	2.00 UR	200 UR	200 UR	2.00 U
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	100 U	100 U	1.00 U
Tetrachloroethene	UG/L	1.00 U	1.00 U	100 U	100 U	1.13
Toluene	UG/L	1.00 U	1.00 U	81.0 J	87.0 J	1.00 U
Trichloroethene	UG/L	1.25	5.23	491	318	8.17
Vinyl chloride	UG/L	1.00 U	1.00 U	233	227	1.00 U
Xylene (total)	UG/L	3.00 U	3.00 U	300 U	300 U	3.00 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	0.208 U	NA	0.220 U	0.220 U	0.206 U

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Detection Limits shown are PQL

GROUNDWATER ANALYTICAL RESULTS - DETECTIONS ONLY
APRIL 2016 TO NOVEMBER 2017
UTC/CARRIER THOMPSON ROAD SITE
SYRACUSE, NEW YORK

Location ID		MW-38	MW-44	MW-45	MW-48	MW-50
Sample ID		MW-38	MW-44	MW-45	MW-48	MW-50
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/09/17	11/10/17	11/14/17	11/13/17	11/13/17
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.41	5.00 U	1.00 U	1.00 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	5.00 U	0.96 J	1.00 U
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	8.12	1.00 U	26.2	5.12	1.00 U
1,2-Dichloroethene (trans)	UG/L	1.00 U	1.00 U	6.05	0.45 J	1.00 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	100 U	20.0 U	20.0 U
Acetone	UG/L	10.0 UR	10.0 UR	5.00 U	0.88 J	10.0 U
Benzene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Chloroform	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Ethylbenzene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	2.00 UR	2.00 UR	10.0 U	2.00 U	2.00 U
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Tetrachloroethene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Toluene	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Trichloroethene	UG/L	21.0	4.99	226	10.7	1.00 U
Vinyl chloride	UG/L	1.00 U	1.00 U	5.00 U	1.00 U	1.00 U
Xylene (total)	UG/L	3.00 U	3.00 U	15.0 U	3.00 U	3.00 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	0.217 U	0.200 U	NA	NA	NA

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Detection Limits shown are PQL

GROUNDWATER ANALYTICAL RESULTS - DETECTIONS ONLY
APRIL 2016 TO NOVEMBER 2017
UTC/CARRIER THOMPSON ROAD SITE
SYRACUSE, NEW YORK

Location ID		MW-57	MW-58	MW-66	MW-69	MW-69
Sample ID		MW-57	MW-58	MW-66	MW-69	MW-69
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/13/17	11/13/17	11/13/17	02/01/17	11/10/17
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.00 U	1.00 U	50.0 U	20.0 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	26.5 J,D,GS	26.6
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	1.00 U	50.0 U	20.0 U
1,2-Dichloroethene (cis)	UG/L	88.3	26.5	185 D	287 D,GS1	86.6
1,2-Dichloroethene (trans)	UG/L	0.45 J	0.44 J	1.65	18.5 D,J,GS	11.0
1,4-Dioxane	UG/L	20.0 U	20.0 U	20.0 U	1,000 U	400 U
Acetone	UG/L	10.0 U	10.0 U	10.0 U	500 U	200 UR
Benzene	UG/L	1.00 U	1.00 U	1.00 U	50.0 U	20.0 U
Chloroform	UG/L	1.00 U	1.00 U	1.00 U	50.0 U	20.0 U
Ethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	50.0 U	20.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	2.00 U	2.00 U	2.00 U	100 U	40.0 UR
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	1.00 U	50.0 U	20.0 U
Tetrachloroethene	UG/L	1.00 U	1.00 U	1.00 U	50.0 U	20.0 U
Toluene	UG/L	1.00 U	1.00 U	1.00 U	50.0 U	20.0 U
Trichloroethene	UG/L	1.77	5.03	1.00 U	3,170 D,GS1	1,060
Vinyl chloride	UG/L	37.5	8.20	21.4	99.0 D,GS1	42.6
Xylene (total)	UG/L	3.00 U	3.00 U	3.00 U	50.0 U	60.0 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	NA	NA	NA	0.476 U	NA

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Detection Limits shown are PQL

GROUNDWATER ANALYTICAL RESULTS - DETECTIONS ONLY
APRIL 2016 TO NOVEMBER 2017
UTC/CARRIER THOMPSON ROAD SITE
SYRACUSE, NEW YORK

Location ID		MW-70	MW-70	MW-71	MW-71	MW-71
Sample ID		MW-70	MW-70	Dup-1	MW-71	MW-71
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/08/17	11/10/17	02/02/17	02/02/17	11/09/17
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	1.00 U	1.00 U	29.0	31.4	67.7
1,2-Dichloroethene (trans)	UG/L	1.00 U	1.00 U	1.91	1.85	4.05
1,4-Dioxane	UG/L	20.0 U	16.2 J	13.3 J	20.0 U	20.0 U
Acetone	UG/L	10.0 UJ	10.0 UR	10.0 UJ	10.0 UJ	1.60 J
Benzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	2.00 U	2.00 UR	2.00 U	2.00 U	2.00 U
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrachloroethene	UG/L	1.00 UJ	1.00 U	1.00 UJ	1.00 UJ	1.00 U
Toluene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichloroethene	UG/L	1.00 UJ	1.00 U	37.2	40.1	89.3 D
Vinyl chloride	UG/L	1.00 U	1.00 U	3.01	3.54	8.79
Xylene (total)	UG/L	1.00 U	3.00 U	1.00 U	1.00 U	3.00 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	0.253 U	NA	0.476 U	0.444 U	NA

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Detection Limits shown are PQL

GROUNDWATER ANALYTICAL RESULTS - DETECTIONS ONLY
APRIL 2016 TO NOVEMBER 2017
UTC/CARRIER THOMPSON ROAD SITE
SYRACUSE, NEW YORK

Location ID		MW-72	MW-73	MW-74	MW-75	MW-75
Sample ID		MW-72	MW-73	MW-74	MW-75	MW-75
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/01/17	02/01/17	02/01/17	02/02/17	11/10/17
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	1.12	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene (trans)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Acetone	UG/L	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 UR
Benzene	UG/L	0.29 J	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	0.51 J
Ethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UR
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrachloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 U
Toluene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichloroethene	UG/L	1.93	1.00 U	1.00 U	1.15	0.96 J
Vinyl chloride	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylene (total)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	3.00 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	0.444 U	0.476 U	0.541 U	0.500 U	NA

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Detection Limits shown are PQL

GROUNDWATER ANALYTICAL RESULTS - DETECTIONS ONLY
APRIL 2016 TO NOVEMBER 2017
UTC/CARRIER THOMPSON ROAD SITE
SYRACUSE, NEW YORK

Location ID		MW-76	MW-76	MW-77	MW-77	MW-78
Sample ID		MW-76	MW-76	MW-77	MW-77	MW-78
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/02/17	11/10/17	02/07/17	11/10/17	02/07/17
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene (trans)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Acetone	UG/L	10.0 UJ	1.97 J	10.0 UJ	10.0 UR	10.0 UJ
Benzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	2.00 U	2.00 U	2.00 U	2.00 UR	2.00 U
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrachloroethene	UG/L	1.00 UJ	1.00 U	1.00 UJ	1.00 U	1.00 UJ
Toluene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichloroethene	UG/L	1.00 U	1.00 U	1.00 UJ	1.00 U	1.00 UJ
Vinyl chloride	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylene (total)	UG/L	1.00 U	3.00 U	1.00 U	3.00 U	1.00 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	0.476 U	NA	0.253 U	NA	0.263 U

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Detection Limits shown are PQL

GROUNDWATER ANALYTICAL RESULTS - DETECTIONS ONLY
APRIL 2016 TO NOVEMBER 2017
UTC/CARRIER THOMPSON ROAD SITE
SYRACUSE, NEW YORK

Location ID		MW-79	MW-79	MW-80	MW-81	MW-82
Sample ID		MW-79	MW-79	MW-80	MW-81	MW-82
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/15/17	11/13/17	02/15/17	02/08/17	02/07/17
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene (cis)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2-Dichloroethene (trans)	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Acetone	UG/L	10.0 UJ	10.0 U	10.0 UJ	10.0 UJ	10.0 UJ
Benzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Chloroform	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Ethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methyl ethyl ketone (2-Butanone)	UG/L	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Tetrachloroethene	UG/L	1.00 UJ	1.00 U	1.00 UJ	1.00 UJ	1.00 UJ
Toluene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Trichloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 UJ	1.00 UJ
Vinyl chloride	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Xylene (total)	UG/L	1.00 U	3.00 U	1.00 U	1.00 U	1.00 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	0.206 U	NA	0.233 U	0.211 U	0.286 U

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Detection Limits shown are PQL

GROUNDWATER ANALYTICAL RESULTS - DETECTIONS ONLY
APRIL 2016 TO NOVEMBER 2017
UTC/CARRIER THOMPSON ROAD SITE
SYRACUSE, NEW YORK

Location ID		MW-83	MW-84	MW-84	MW-84	TR3-GB-03
Sample ID		MW-83	MW-84	FD-111017	MW-84	TR3-GB-03
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/07/17	02/01/17	11/10/17	11/10/17	04/19/16
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U
1,1-Dichloroethane	UG/L	0.51 J	1.00 U	1.00 U	1.00 U	1.0 U
1,1-Dichloroethene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.00 U	1.99	0.57 J	0.78 J	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.00 U	4.22	1.11	1.41	1.0 U
1,4-Dioxane	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	NA
Acetone	UG/L	10.0 UJ	10.0 U	10.0 UR	10.0 UR	10 UR
Benzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	0.5 U
Chloroform	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U
Ethylbenzene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	2.00 U	2.00 U	2.00 UR	2.00 UR	10 UR
Methyl tert-butyl ether	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	NA
Tetrachloroethene	UG/L	1.00 UJ	2.99	2.43	3.30	1.0 U
Toluene	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.0 U
Trichloroethene	UG/L	1.00 UJ	46.4	6.41	8.26	0.71 J
Vinyl chloride	UG/L	1.00 U	1.00 U	1.00 U	1.00 U	1.0 UJ
Xylene (total)	UG/L	1.00 U	1.00 U	3.00 U	3.00 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	0.250 U	0.426 U	NA	NA	0.16 U

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Location ID		TR3-MW-01	TR3-MW-02	TR3-MW-02	TR3-PW-01	TR3-PW-01
Sample ID		TR3-MW01	TR3-MW02	TR3-MW-02	TR3-PW1	FD-111317
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/18/16	04/18/16	11/13/17	04/18/16	11/13/17
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.00 U	1.0 U	2,000 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.00 U	1.9	2,000 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.00 U	136	2,000 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.00 U	12,500 DJ	24,700
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.00 U	47.6	2,000 U
1,4-Dioxane	UG/L	NA	NA	20.0 U	NA	40,000 U
Acetone	UG/L	10 UR	10 UJ	8.58 J	18.8 J	20,000 U
Benzene	UG/L	0.5 U	0.5 U	1.00 U	0.5 U	2,000 U
Chloroform	UG/L	1.0 U	1.0 U	1.00 U	1.0 U	2,000 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.00 U	1.0 U	2,000 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 UR	10 UR	1.25 J	10 UR	4,000 U
Methyl tert-butyl ether	UG/L	NA	NA	1.00 U	NA	2,000 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.00 U	77.6	2,000 U
Toluene	UG/L	1.0 U	1.0 U	1.00 U	2.1	2,000 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.00 U	195,000 DJ	134,000
Vinyl chloride	UG/L	1.0 UJ	1.3 J	1.00 U	107 J	2,000 U
Xylene (total)	UG/L	1.0 U	1.0 U	3.00 U	1.0	6,000 U
Polychlorinated Biphenyls						
Aroclor 1254	UG/L	0.16 U	0.16 U	NA	0.16 U	NA

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SYRACUSE, NEW YORK

Location ID		TR3-PW-01	TR3-PW-02
Sample ID		TR3-PW-01	TR3-PW-2
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		11/13/17	04/19/16
Parameter	**Units**		
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	2,000 U	1.0 U
1,1-Dichloroethane	UG/L	2,000 U	1.0 U
1,1-Dichloroethene	UG/L	2,000 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	24,300 D	1.0 U
1,2-Dichloroethene (trans)	UG/L	2,000 U	1.0 U
1,4-Dioxane	UG/L	40,000 U	NA
Acetone	UG/L	20,000 U	10 UJ
Benzene	UG/L	2,000 U	0.5 U
Chloroform	UG/L	2,000 U	1.0 U
Ethylbenzene	UG/L	2,000 U	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	4,000 U	10 UR
Methyl tert-butyl ether	UG/L	2,000 U	NA
Tetrachloroethene	UG/L	2,000 U	1.0 U
Toluene	UG/L	2,000 U	1.0 U
Trichloroethene	UG/L	137,000 D	2.0
Vinyl chloride	UG/L	2,000 U	1.0 UJ
Xylene (total)	UG/L	6,000 U	1.0 U
Polychlorinated Biphenyls			
Aroclor 1254	UG/L	NA	0.16 U

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