PARSONS

2016 SITE-WIDE GROUNDWATER SAMPLING REPORT

ROHM AND HAAS CHEMICALS LLC

2000 WEST STREET

CINCINNATI, OH 45215

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List of Acronyms

AST	Aboveground Storage Tank
BGS	Below Ground Surface
CD	Compact Disk
DO	Dissolved Oxygen
EDD	Electronic Data Deliverable
FI	Facility Investigation
GPM	Gallons Per Minute
GWIA	Groundwater to Indoor Air
HHRA	Human Health Risk Assessment
MCL	Maximum Contaminant Level
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NAPL	Non-aqueous Phase Liquid
Ohio EPA	Ohio Environmental Protection Agency
ORP	Oxidation Reduction Potential
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PTI	Permit to Install
QA/QC	Quality Assurance/Quality Control
RA	Risk Assessment
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation/Feasibility Study
RSL	Regional Screening Level
SERA	Screening Ecological Risk Assessment
SVOC	Semi-volatile Organic Compound
SWMU	Solid Waste Management Unit
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VAP	Voluntary Action Program
VISL	Vapor Intrusion Screening Level
VOC	Volatile Organic Compound
WQC	Water Quality Criteria

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Section 1
Introduction

This report discusses tasks conducted as part of the 2016 supplemental site-wide groundwater sampling program at the former Rohm and Haas Chemicals LLC (Rohm and Haas) facility at 2000 West Street, Reading, Ohio (Figure 1). The work was conducted on behalf of Rohm and Haas per the request of the U.S. Environmental Protection Agency (USEPA) in order to update current site conditions and close a Resource Conservation and Recovery Act (RCRA) 3013 Administrative Order at the site.

Rohm and Haas Chemicals LLC became a subsidiary of The Dow Chemical Company on April 1, 2009. The Rohm and Haas Cincinnati facility formerly manufactured chemical products; the following chemical products were manufactured at the facility from 1950 until 2013 when the Site was sold to PMC Group:

- Synthetic waxes, used as lubricants in plastic extrusion processes and as defoamers in the paper industry;
- Asphalt additives, specifically anti-stripping agents;
- Antioxidants;
- Phosphonium salts, used as catalysts for epoxy and powder coatings; and
- Plastic stabilizers, specifically organotin and cyoglycolate organotin stabilizers.

The raw materials used to manufacture these products include metallic tin, methyl chloride (chloromethane), chlorine, ammonia, 2-mercaptyl ethanol, tall oil fatty acid, 2-ethyl hexanol, thioglycolic acid, ethylene diamine, stearic acid, paraffin waxes, ethyl chloride, benzyl chloride, triphenyl phosphene, and others. Chemical intermediates produced on site included stannic chloride, dimethyl tin dichloride, esters, and glycolates. The former Rohm and Haas Cincinnati facility was never involved in the manufacture, blending, or compounding of pesticides or herbicides.

During Rohm and Haas' use of the site, the operational portion of the facility consisted of approximately 28 buildings, including process, warehouse, office, laboratory, and waste treatment operational structures. The facility also included approximately 70 aboveground storage tanks (ASTs) for feedstock, product, and waste storage. There are no active underground storage tanks (USTs) at the facility; three previous USTs were removed or closed in place. Figure 2 shows the facility layout at the time Rohm and Haas sold the plant and ended operations at the facility.

The site was sold by Rohm and Haas to PMC Group in 2013. PMC Group subsequently moved the manufacturing operations to its other facilities and sold the site to QGPOH, LLC on March 30, 2016. QGPOH is currently in the process of dismantling buildings and equipment to prepare the site for redevelopment. While owned by Rohm and Haas, the site was undergoing RCRA corrective actions associated with solid waste management units (SWMUs) identified at the facility. The current owner contacted the USEPA regarding removal of the RCRA Agreed Order that is still in place at the site in order to continue with redevelopment plans.

Thus, supplemental groundwater sampling was conducted at the site in December 2016 to update current site conditions. The 2016 groundwater sampling is not required by any environmental program or the existing Administrative Order between Rohm and Haas and the USEPA. Instead, the work was conducted voluntarily at the request of the USEPA in order to facilitate closure of the outstanding RCRA Administrative Order and allow the new owner to proceed with redevelopment of the site.

Section 2
History of Investigations and Remediation

2.1 SITE DEVELOPMENT HISTORY AND REGULATORY INVOLVEMENT

The former Rohm and Haas Facility was constructed in 1949 and commenced chemical manufacture operations in 1950. Prior to 1949, the northern portion of the property was used as a winery or distillery, and reportedly as a smokehouse and fireworks manufacturer. The southern portion of the property was a dairy, farm, and milk bottling facility.

Cincinnati Milling Machine Co., Inc. originally developed the former Rohm and Haas Facility for chemical operations associated with the Carlisle Chemical Works, which was acquired in 1948. The operation retained the Carlisle Chemical Works name from 1949 to 1970. The name was changed to Cincinnati Milacron Chemicals, Inc. in 1970 as part of the division of Cincinnati Milling Machine Co., Inc. into separate business entities. It operated under that name until 1980, when Carstab, a subsidiary of Thiokol, Inc. (Thiokol), purchased it. Morton International, Inc. and Thiokol merged in 1982, but separated in 1989, at which time Morton retained the ownership and operation of the facility. In 1999, Rohm and Haas purchased all of Morton's assets, and Morton became a wholly-owned subsidiary of Rohm and Haas. Rohm and Haas Chemicals LLC subsequently became a subsidiary of The Dow Chemical Company on April 1, 2009. In 2013, the site was sold to PMC Group and manufacturing operations were shut down and moved to other PMC facilities. In March 2016, PMC sold the facility to QGPOH, who has plans to redevelop the site for light industrial purposes and warehousing.

On August 18, 2000 a Section 3013 Administrative Order was issued to Morton International to address environmental concerns at the facility. The Administrative Order required sampling to determine the nature and extent of the hazards associated with eight specific areas at the site. Rohm and Haas assumed responsibility for the work required by the Administrative Order, and believes they have determined the nature and extent of the hazards at the site.

2.2 SITE LAYOUT AND SURROUNDING LAND USE

The former Rohm and Haas Cincinnati facility consists of a single, 34-acre tract of land. Approximately 27 acres comprised the fenced, operational area of the facility, and the remaining 7 acres contain baseball fields used by the City of Reading. North of the site is the Pristine Superfund Site and the former Cincinnati Drum Service (a drum recycler), to the west is Mill Creek, an asphalt plant and a General Electric aircraft engine facility, to the east are railroad tracks owned by the Southwest Ohio Regional Transit Authority, a grain elevator and various small commercial and light industrial facilities, while to the south are recreational facilities operated by the City of Reading.

The Pristine Superfund site was used as a liquid waste disposal facility from 1974 – 1981. The Pristine site was closed in 1981 due to numerous permit violations. Chemicals of concern associated with the Pristine site include polychlorinated biphenyls (PCBs), pesticides, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals and dioxins. A Remedial Investigation and Feasibility Study (RI/FS) conducted in 1984 demonstrated that the subsurface soils and groundwater at the Pristine site were highly contaminated including the City of Reading well field. The City of Reading well field supplied water to more than 15,000 people and the well field included wells located adjacent to the former Rohm and Haas site (USEPA, 2016). A number of remedial measures were implemented at the Pristine site including soil removal, thermal treatment of soil, a soil cap, in-situ vapor extraction system, and a groundwater extraction and treatment system. The groundwater treatment system is still operating and pumping at a rate of approximately 50 – 150 gallons per minute (gpm). The former Cincinnati Drum Service is listed as one of the settling defendants in the Environmental Covenant recorded for the Pristine Superfund site due to operations conducted by Pristine on the former Cincinnati Drum property.

2.3 SITE GEOLOGY AND HYDROGEOLOGY

Hamilton County is located on the west flank of the regional anticline termed the Cincinnati Arch. The former Rohm and Haas facility is located within the Mill Creek Valley, which is one of a series of buried glacially-inclined valleys in the region. The valley is filled predominantly with glacial outwash deposits, with lesser amounts of moraine deposits and alluvial deposits from the valley walls (Geomatrix, 2004). Previous drilling in the vicinity of the site (primarily for the Pristine investigations) indicate typical local thicknesses for the outwash deposits ranging from 130 to 160 feet. To the east of the site, these deposits thin and pinch out against the eastern edge of the Mill Creek Valley. The outwash deposits are divided into two aquifers: the Upper and Lower Aquifers (Geomatrix, 2004).

The Upper Aquifer consists of transmissive interbeds within the shallow lacustrine deposits. The overall thickness of this aquifer is typically 50 to over 100 feet in the vicinity of the facility. For any given location within the former Rohm and Haas Facility, from one to four sand or gravelly sand interbeds may be present. Communication between deeper interbeds and the Lower Aquifer is generally good; little to no direct communication is present between the shallow interbeds and the Lower Aquifer (Geomatrix, 2004). A portion of the Upper Aquifer crops out in the Mill Creek bank west of the facility. Given that Upper Aquifer groundwater flow at the facility is predominantly to the west (i.e., toward the creek), groundwater underlying the Rohm and Haas Facility is historically believed to have formed seeps along this outcrop. There is no known use of the Upper Aquifer for water supply purposes in the vicinity of the facility.

The Lower Aquifer is generally divided into an upper and lower portion based on lithology. The upper portion predominately is comprised of silty sand and is reportedly not used for local water supply. The lower portion is typically screened by local production wells, and predominantly comprised of sands and gravels (Geomatrix, 2004). The City of Reading formerly utilized local wells screened in this zone to produce their municipal water supply. Use of these wells has been discontinued due to environmental impact to Lower Aquifer groundwater. There are currently no known active supply wells at or in the immediate vicinity of the Rohm and Haas Facility.

The thickness of the Lower Aquifer varies from approximately 17 to 122 feet in the immediate vicinity of the Rohm and Haas Facility, with a mean thickness of approximately 80 feet. The overall groundwater gradient within the Lower Aquifer is to the south (Geomatrix, 2004), along the Mill Creek valley. Its gradient and groundwater flow direction are strongly affected, however, by local pumping. In the vicinity of the Rohm and Haas Facility, the pumping of remediation wells for the Pristine Superfund site predominantly controls the gradient (Geomatrix, 2004).

2.4 SURFACE WATER HYDROLOGY

Mill Creek is the only surface water body in the vicinity of the site. Mill Creek is located approximately 80 – 100 feet west of the site. A contributing, unnamed stream enters Mill Creek from the west on the General Electric property and surface drainages enter Mill Creek from the former Cincinnati Drum and the Pristine facilities to the north, upstream of the site. Drainage from the Morton Facility does not enter Mill Creek under typical conditions (Geomatrix, 2004). Instead, the drainage enters the combined sewer system operated by the local Metropolitan Sewer District. Facility runoff does periodically enter Mill Creek during major storm/flooding events.

Mill Creek is not used for drinking water supply or agricultural use and no surface water intakes are located within three miles of the site. The creek is occasionally used for recreational purposes such as canoeing and kayaking. Adjacent to the site, Mill Creek is designated by the Ohio Environmental Protection Agency (Ohio EPA) as a warmwater habitat for aquatic life, agricultural and industrial water supply, and primary contact for recreational uses (Ohio EPA, 2015).

2.5 SUMMARY OF PREVIOUS INVESTIGATIONS AND REPORTS

A number of investigations and reports have been completed for the former Rohm and Haas site. A brief overview of some of the major investigations and reports are summarized in the following subsections.

2.4.1 REMEDIAL INVESTIGATION/FEASIBILITY STUDY INVESTIGATION

The primary investigation of the site was conducted in 2001 – 2004 by Geomatrix as part of a facility-wide investigation to "ascertain the nature and extent of the hazard areas posed by the hazardous wastes that are present at or that may have been released from the facility" per the Administrative Order issued in August 2000 (Geomatrix, 2004). Comprehensive sampling was conducted to provide information on the concentrations of chemicals in soil and groundwater in the operational areas at the facility and in the sediments and surface water of the adjacent Mill Creek. Soil samples were collected from the surface to the groundwater table [up to 24 feet below ground surface (bgs)]. Up to 137 soil samples on site were analyzed, depending upon the constituent. Thirteen VOCs were detected in soils at a frequency of greater than 5% with acetone, toluene, chlorobenzene, methylene chloride, and xylenes being the most frequently detected VOCs in soil. Ten SVOCs were detected in site soils at a frequency greater than 5% with bis(2-ehtylhexyl)phthalate, fluoranthene, pyrene, phenanthrene and benzo(b)fluoranthene being the most frequently detected SVOCs in site soils. Metals detected in soils associated with site operations included arsenic, lead and tin. Chromium speciation analyses were conducted on four soil samples in 2004 and the results confirmed that the chromium observed at the site is present almost exclusively in the trivalent form.

For groundwater, chemicals associated with the former Rohm and Haas Facility were not detected in the Lower Aquifer as discussed in the Facility Investigation Report (Geomatrix, 2004). Groundwater monitoring of the Upper Aquifer was conducted from 2001 through 2006 as part of the remedial investigations of the site and subsequent voluntary long-term monitoring (Parson, 2010). Thirty VOCs were detected in groundwater and twenty-four VOCs were detected at a frequency greater than 5 percent of the samples analyzed. The most frequently detected compounds were chlorobenzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, and toluene. The VOCs that had the highest detected concentrations in groundwater were as follows: acetone (45,000 micrograms per liter [µg/L]), toluene (24,000 µg/L), chlorobenzene (4,500 µg/L), 1,2-dichlorobenzene (1,900 µg/L) and 2-butanone (750 µg/L).

Eighteen SVOCs were detected in shallow groundwater between 2001 – 2006; however, only four SVOCs were detected at a frequency greater than 5 percent of the samples analyzed. Aniline, caprolactam, bis(2-ethylhexyl)phthalate and 4-methylphenol were detected in 57, 31, 23 and 12 samples, respectively. Except for aniline (12,000 µg/L), the maximum concentrations of SVOCs detected were all less than 400 µg/L.

Twenty-four out of twenty-six inorganics were detected in shallow groundwater samples at a frequency greater than five percent of the samples analyzed from 2001 – 2006. Hexavalent chromium was only analyzed in seven samples but it was not detected in any of those samples. Silver was detected in only three of 170 samples analyzed. Of the potentially site-related metals, maximum detected concentrations in groundwater were as follows: arsenic – 611 ug/L, chromium – 7,230 ug/L, lead – 405 ug/L, nickel – 1,950 ug/L, and tin – 11,100 ug/L.

Chemicals potentially migrating from the site to surface water were assessed based on surface water samples (WS-1A to WS-6A) collected from Mill Creek in March 2004. Based on the industrial nature of the surrounding area, known impacts to Mill Creek from multiple sources, and the numerous sewer discharges to Mill Creek, samples from the creek may not be solely representative of potential discharges from the site. Six VOCs, two SVOCs, no pesticides, and 8 inorganics were detected in surface water samples collected from Mill Creek. Concentrations of VOCs, and SVOCs were all below 2 µg/L except for acetone, which was detected at 6.3 µg/L.

Two seep samples (SS-1 and SS-5) were collected along Mill Creek's bank in November 2001. For the seeps, both the physical extent (maximum of a few feet across) and the volume of water being discharged (no apparent flow) were observed. The seeps were only present during portions of the year, were very localized, and were volumetrically insignificant compared to the volume of water passing them in Mill Creek. Therefore, direct contact with to these seeps was considered an incomplete exposure pathway in the risk assessment conducted for the facility (Parsons, 2010).

Ten VOCs were detected in 26 sediment samples collected from Mill Creek. Acetone (8 samples) and chlorobenzene (5 samples) were detected most frequently, both at a maximum concentration of 0.018 mg/kg. Twenty-four SVOCs were detected in seven sediment samples. The highest concentrations of polycyclic aromatic hydrocarbons (PAHs) were anthracene (1.3 mg/kg), benzo(a)anthracene (1.4 mg/kg), benzo(a)pyrene (1.2 mg/kg), benzo(b)fluoranthene (1.3 mg/kg), chrysene (1.7 mg/kg), fluoranthene (4.6 mg/kg), phenanthrene (4.8 mg/kg) and pyrene (3.1 mg/kg). These

PAHs were all detected at the same sample location. Twenty-three inorganics were detected in 26 sediment samples collected from Mill Creek. Of the potentially site-related metals, maximum detected concentrations in the sediments of Mill Creek were as follows: arsenic – 6.3 mg/kg ug/L, chromium – 22.9 mg/kg, lead – 38.3 mg/kg, nickel –22 mg/kg, and tin – 76.3 mg/kg.

2.4.2 BASELINE RISK ASSESSMENT

Using the data collected as part of the RI/FS investigations and voluntary groundwater monitoring, a baseline risk assessment (RA) was completed for the site in 2010 (Parsons, 2010). The purpose of the baseline RA was to provide an analysis of the potential for adverse human health and ecological effects as a result of potential exposure to chemicals in soil and groundwater at the facility and in sediment and surface water in Mill Creek. As a baseline RA, it presented an assessment of potential adverse human health effects and a screening evaluation of potential ecological effects under the no-action alternative; that is, the potential effects that may result if no further corrective action of the former Rohm and Haas Facility were to take place.

The Baseline RA was a quantitative human health risk assessment (HHRA) and screening ecological risk assessment (SERA) that was conducted to evaluate chemicals detected in soil and groundwater at the former Rohm and Haas Facility and chemicals detected in seeps and the surface water and sediments of the Mill Creek. The baseline RA followed standard and customary practice according to USEPA guidelines.

The results of the HHRA indicated that the estimated risks and hazards for industrial workers, construction workers, recreational users of Mill Creek, ball field recreational users, and off-site residents are within acceptable target risk ranges and below the hazard index of 1 for all pathways and media evaluated. Thirty-one constituents in groundwater were identified as potential constituents of concern for the groundwater to surface water discharge pathway when comparing the maximum detected concentrations in groundwater to the most conservative surface water screening value (2009 National Recommended Water Quality Criteria, 2010 Maximum Contaminant Levels or Regional Screening Levels for tap water). An additional comparison to Ohio EPA Ohio River Basin human health surface water screening levels was performed for compounds detected in groundwater. Only the maximum detections of 1,1-dichloroethene, 2-chlorophenol and mercury exceeded the Ohio EPA surface water criteria for drinking water. Note that the maximum detections of 1,1-dichloroethene and 2-chlorophenol did not exceed the Ohio EPA surface water criteria for human health non-drinking water sources. The non-drinking water criteria are more applicable to Mill Creek based on its current water supply designation by the state for agricultural and industrial water supply use only. When compared to Ohio EPA human health screening values for non-drinking water uses, only mercury exceeded a screening value; however, mercury was eliminated as a compound of potential concern because mercury is not a site-related constituent.

For ecological receptors, no compounds of potential ecological concern were identified for site soils or the surface water and sediments of Mill Creek. The estimated risks to ecological receptors have minimal ecological significance due to the limited toxicity of the detected compounds to the ecological receptors, the elevated concentrations in background samples, the urbanized setting of the surrounding area, and the operation of a French Drain that collects groundwater prior to discharge into the Mill Creek. However, further assessment of the groundwater to surface water migration pathway and potential effect on the surface water of Mill Creek was recommended to confirm the SERA results and effectiveness of the French Drain collection system.

2.4.3 LONG-TERM GROUNDWATER MONITORING

Long-term groundwater monitoring has been conducted at the former Rohm and Haas site from 2001- 2012. Groundwater samples were collected at least annually each year except in 2011 when no groundwater samples were collected. Groundwater samples were analyzed for VOCs, SVOCs, Metals and Pesticides and PCBs (only between 2001 – 2004). Pesticides and PCBs were eliminated from the groundwater monitoring program after the 2004 sampling event due to a general lack of detections and because they are not site-related compounds. Annual groundwater monitoring reports were prepared, with the last report issued in April 2013 (Parsons, 2013a).

In 2012, in the shallow Upper Aquifer sands, the groundwater flow across the site was generally to the west toward Mill Creek and southwest toward the recovery well, with a steeper gradient in the eastern portion of the site. In the deep Upper Aquifer sands, the groundwater flow on the western and east central portions of the site was toward a central trough. These hydraulic gradients have been consistent throughout the monitoring events.

Based on the long-term groundwater monitoring from 2001 - 2012, VOCs in the shallow Upper Aquifer are generally highest in the northwestern area of the site. In the deeper Upper Aquifer, VOC concentrations are generally higher in the northeastern area of the site. 1,2-Dichlorobenzene and chlorobenzene were the most frequently detected VOCs in site groundwater. In the shallow Upper Aquifer sands, the measured concentrations of SVOCs were generally limited to the northwestern area of the site; and in the deep Upper Aquifer, the measured concentrations of SVOCs were generally non-detect. For metals, in the both the shallow and deep Upper Aquifer sands, measured concentrations were generally highest in the northwestern and north-central portions of the site.

2.5 SUMMARY OF PREVIOUS REMEDIAL ACTIONS IMPLEMENTED AT THE SITE

Over the course of its ownership of the site, Rohm and Haas has voluntarily implemented a number of remedial actions at the site. These actions have included removal of metal and organic contamination at the former waster burial areas; upgrading the combined sewer system to replace areas that had failed due to corrosion and debris accumulation, and installation of a French Drain, slurry wall and groundwater extraction system. The slurry wall and French Drain were installed in 1984-1985. Because the French Drain would create a hydraulic sink and possibly draw groundwater from the Cincinnati Drum and the Pristine facilities, the slurry wall was installed along the western portion of the northern site boundary (PRC, 1993). The slurry wall begins near an area where six former impoundments were located. The French Drain system is approximately 20 feet deep and begins in the northwest corner of the site. It runs southwest for approximately 750 feet along the periphery of the site, then runs southeast and terminates near a former fire tank (E&E, 1991). The purpose of the French Drain was to collect groundwater before it could discharge to Mill Creek. A 4-inch diameter extraction well and submersible pump were installed in the general vicinity of a former swale near the middle of the site. The exact depth of the well is unknown but is believed to also be about 20 feet deep. Groundwater pumped from the well flows northwestward through an underground pipe to a collection sump, which also serves as the holding sump for groundwater collected in the French Drain. The collected discharge, approximately 10,000 – 12,000 gallons per day in the early to mid-1990s, was initially treated with hydrogen peroxide and discharged to the local Metropolitan Sewer District. In 1992, Morton added additional treatment steps to the process in order to use a large portion of the treated groundwater as make-up water in the facility's recirculating non-contact cooling water system (TechLaw, 1998). In 2008, a Permit-to-Install (PTI) application was submitted to the Ohio EPA to address changes to the filter media for the groundwater extraction system and the re-routing of approximately 14,400 gallons per day of treated groundwater for use in process facilities at the site prior to discharge to the local Metropolitan Sewer District. The PTI was approved and the groundwater extraction system was operated in accordance with the Permit until plant operations ceased at the facility.

2.6 FRENCH DRAIN SHUTDOWN EVALUATION

Because the effectiveness of the French Drain in controlling the discharge of groundwater to the Mill Creek has been brought into question by the USEPA (Booz Allen, 2007) and because the results of the 2010 Baseline Risk Assessment indicate that there are no unacceptable impacts to recreational users or aquatic life in Mill Creek, the impact of shutting down the groundwater recovery system was evaluated in 2012 – 2013 (Parson, 2013b). For the evaluation, Parsons reviewed the site geology and hydrogeology of the site, potentiometric surfaces and hydraulic gradients across the site and adjacent to the French Drain and Mill Creek, recovery rates in the French Drain and from the recovery well, low flow conditions in Mill Creek and analytical data collected in 2010 from the French Drain prior to treatment. Estimates of the volumetric groundwater flux to Mill Creek were then calculated, utilizing site-specific estimates of hydraulic conductivity, saturated aquifer thickness, hydraulic gradients, and groundwater flux rates with and without groundwater being pumped. Estimated concentrations in the surface water of Mill Creek were then calculated using these site-specific parameters and maximum detected concentrations in all site wells and the perimeter wells closest to Mill Creek. The

conclusion of the evaluation, based on these estimated surface water concentrations in Mill Creek, was that the effect of shutting down the groundwater extraction system would have no discernible effects on the concentrations of constituents detected in the creek, even during low flow conditions, due to the low groundwater flux rate observed at the site (Parsons, 2013b).

Section 3
2016 Site-wide Groundwater Sampling

3.1 GROUNDWATER SAMPLING

The existing monitoring wells at the site are each screened in one of three zones: the shallow Upper Aquifer sands, the deep Upper Aquifer sands, and the lower aquifer. Table 1 shows the aquifer in which each well is screened. Figure 2 shows the monitoring well locations.

On December 1, 2016, Parsons measured water levels in all accessible monitoring wells at the site. Table 1 summarizes the water level and groundwater elevation data. A Solinst Interface probe was used to check for any non-aqueous phase liquid (NAPL) and to gage the depth to water and depth to bottom of the wells.

From December 2 – 15, 2016 (the 2016 sampling event), Parsons sampled each of the Upper Aquifer, on-site wells. Parsons performed the low-flow purging and sampling with a low-flow bladder pump to sample the on-site monitoring wells. The low-flow sampling equipment included a QED stainless steel Sample Pro® micropurge bladder pump with disposable Teflon bladders and Teflon-lined tubing. An oil-less 12-volt compressor was used to power the pump. An AquaTROLL 600 multi-parameter water quality meter was used to measure field parameters in purge water from the monitoring wells. The field method followed these steps:

1. Gaged and recorded water level.
2. Assembled low-flow bladder pump with disposable Teflon bladder and Teflon-lined tubing.
3. Set pump slowly into well to the middle of the screened interval and allowed for equilibrium.
4. Assembled the pump controller, 12-volt oil-less compressor, flow-through cell, and water quality meter.
5. Gaged water level to confirm static water level.
6. Purged at approximately 100 to 300 milliliters per minute (mL/minute). Maintained the same flow rate during purging and sampling.
7. Measured temperature, specific conductance, pH, dissolved oxygen (DO), oxidation reduction potential (ORP) and turbidity and recorded measurements every three to five minutes. Continued purging until three consecutive readings fell within 3 percent for conductivity, turbidity and ORP; within 10 percent for DO; and within +/- 0.2 units for pH. At least three well parameter readings were recorded for each well. Deviations from this sampling procedure are noted on the groundwater sampling log.
8. Collected samples in laboratory-supplied containers and placed them immediately in an ice-filled cooler.
9. Recorded data on groundwater sampling logs (Appendix A). Due to an equipment malfunction with one of the computers used to record the data, logs were only able to be downloaded for half of the wells.
10. Recorded start and end times in the field book.

3.2 SAMPLE NOMENCLATURE

Groundwater samples were labeled using the Rohm and Haas protocol for field sample labels: the date first, then well identification, followed by vertical depth, and finally an alpha character indicating the type of sample (normal, field duplicate, etc.). For example, the sample label for UAW09-60 was 20161202UAW09-60V54N. The nomenclature indicates that a normal sample was collected from UAW09-60 on December 2, 2016 at a depth of 54 feet below top of casing. A chain-of-custody form accompanied each sample cooler.

3.3 ANALYTICAL METHODS AND QA/QC PROCEDURES

Groundwater samples were submitted to TestAmerica Laboratories (TestAmerica) in North Canton, Ohio, for analysis of VOCs using United States Environmental Protection Agency (USEPA) Method SW846-8260B; SVOCs, including aniline, by

USEPA Method SW846-8270C; total metals, including tin, by USEPA Method SW846-6010B; and mercury by USEPA Method SW846-7470A.

Four types of quality control (QC) samples were used to assess the adequacy of sampling, decontamination, and transportation procedures. These QC samples include equipment blanks, field blanks, matrix spike, and field duplicate samples.

- Two extra sample volumes were collected with samples 20161202UAW09-60V54N and 20161208UAW26-70V72N for matrix spike / matrix spike duplicate (MS/MSD) control. TestAmerica used additional site samples as the MS/MSD samples for metals analyses.
- One field blank sample, 20161202CINFB-1, was collected by dispensing laboratory-grade deionized water into sample bottles under ambient sampling conditions.
- Two equipment blank samples (20161213CINRB-1 and 20161215CINRB-2) were collected by pouring laboratory-supplied, deionized water through the low-flow equipment following decontamination.
- Three duplicate samples, 201612080UAW16-10V13FD, 20161207UAW02-40V41FD and 20161214UAW20-60V56FD, were collected at UAW16-10, UAW02-40 and UAW20-60, respectively.

The equipment blanks, field blank, duplicates, and MS/MSD samples were analyzed for VOCs by USEPA Method SW846-8260B; SVOCs, including aniline, by USEPA Method SW846-8270C; total metals, including tin, by USEPA Method SW846-6010B; and mercury by USEPA Method SW846-7470A.

The appropriate chain-of-custody forms were completed and maintained by Parsons' field technician. Samples were taken to the TestAmerica collection facility in Sharonville, Ohio, and shipped in coolers via overnight courier to:

TestAmerica Laboratories, Inc.
4101 Shuffel Drive NW
North Canton, Ohio 44720
(330) 497-9396

3.4 DISPOSITION OF PURGE WATER

Purge water generated during well purging was temporarily placed in two 55-gallon drums. In February 2017, the purge water was emptied into the groundwater collection system sump and then pumped to the local Metropolitan Sewer District.

3.5 DECONTAMINATION PROCEDURES

Equipment used during the sampling was thoroughly decontaminated before its initial use and after each subsequent use. Down-hole equipment was decontaminated after use at each well location using laboratory-grade, non-phosphate detergent and double-rinsed with deionized water. Upon completion of field activities, sampling equipment was decontaminated before leaving the site. Decontamination water was placed into the two purge water drums.

Section 4
Sampling Results

4.1 GROUNDWATER ELEVATION DATA

Parsons conducted the monitoring well gauging on December 1, 2016. NAPLs were not detected in any monitoring well. Table 1 includes the groundwater elevation measurements. Figures 3a and 3b are groundwater potentiometric surface maps for wells completed in the shallow Upper Aquifer sands and the deep Upper Aquifer sands, respectively. A potentiometric surface map was not prepared for the Lower Aquifer due to the limited number of wells (i.e., three) screened in that interval.

In the shallow Upper Aquifer sands (Figure 3a), the groundwater flow across the site is generally to the west toward Mill Creek and southwest toward the recovery well, with a steeper gradient in the eastern portion of the site. The hydraulic gradient at the site was approximately 0.03 feet per foot (ft/ft) for the shallow Upper Aquifer sands, calculated across the central portion of the site. The gradient is steeper in the northeastern area of the site (calculated at 0.05 ft/ft between MW-EPA-2 and UAW22-20) and flattens slightly in the northwestern area of the site (approximately 0.006 ft/ft). This potentiometric surface is similar to those observed in previous years.

In the deep Upper Aquifer sands (Figure 3b), the groundwater flow on the western and east-central portions of the site is toward a central trough. This potentiometric surface is similar to those observed in previous years. Note that the groundwater elevation at UAW10-80 was not used to develop the potentiometric surface in the deep Upper Aquifer sands aquifer since the elevation in this well was one to two feet different in elevation from surrounding wells. Field data did not indicate fouling or other problems with this well; however, similar differences in elevations were observed in this well in previous years.

4.2 GROUNDWATER ANALYTICAL DATA

Tables 2, 3, and 4 summarize the analytical results for VOCs, SVOCs, and inorganic compounds, respectively, for groundwater samples collected during the 2016 sampling event as compared to current maximum contaminant levels (MCLs). If a MCL has not been promulgated for a compound, the May 2016 Regional Screening Level (RSL) in tapwater is presented as an alternative screening level for comparison. Only detected compounds are listed in these analytical tables. Figures 4 (VOCs and SVOCs) and 5 (Metals) depict the distributions of detected constituents above drinking water standards, respectively, for the last four sampling events (2009, 2010, 2012, 2016).

Tables 5, 6, and 7 summarize the analytical results for VOCs, SVOCs and metals, respectively, for samples collected in 2016 as compared to groundwater to indoor air screening levels. Only detected compounds on are listed in the tables. Figure 6 depicts the distributions of the VOCs that have been detected above commercial groundwater to indoor air screening levels since 2009. The groundwater to indoor air screening levels were developed using the Vapor Intrusion Screening Level (VISL) calculator using a risk of $1x10^{-6}$ and hazard of 1.0, with a groundwater temperature of $15^{o}C$ for both residential and commercial scenarios.

Tables 8, 9, and 10 summarize the analytical results for VOCs, SVOCs, and metals, respectively, for groundwater samples collected in 2016 compared to USEPA Region 4 Freshwater Chronic Ecological Screening Levels. Tables 11, 12, and 13 present the 2016 data compared to Ohio Water Quality Criteria (WQC) for the Ohio River Basin (Ohio EPA, 2015) for VOCs, SVOCs and metals, respectively, as those are promulgated criteria in the state of Ohio. Only detected compounds are listed in these analytical tables. Figure 7 depicts the distributions of constituents detected above the Ohio WQC in 2016.

The historical analytical data tables for groundwater samples are included in Appendix B as Tables B-1, B-2, and B-3 for VOCs, SVOCs, and inorganic compounds, respectively. The laboratory electronic data deliverable (EDD) for the 2016 sampling, including a scanned copy of each chain-of-custody form, is on the data compact disc (CD) in Appendix C.

4.2.1 DATA QUALITY ASSESSMENT

During the 2016 groundwater sampling, 41 groundwater samples were collected from 38 monitoring wells and analyzed for VOCs, SVOCs, and inorganics. Sample analysis results were reviewed for compliance with applicable data quality criteria using the project-specific data review protocol described in the analytical data review report (Appendix D). Based on the data review, sample results (as qualified in the report) are usable for the purpose of reporting annual groundwater monitoring results and no analyses were deemed unusable or were rejected. Certain sample results were qualified as estimated ("J") due to minor data quality deficiencies, such as serial dilution results and matrix spike/matrix spike duplicate results. Additionally, some sample results were qualified as undetected ("U") due to associated blank contamination; these results should be considered to be potential false-positive results. The full data review report is included as Appendix D.

4.2.2 VOCS

Thirty-two of the 41 groundwater samples (including duplicate samples) collected for analysis of VOCs during the 2016 event indicated one or more VOC compounds above laboratory reporting limits. A total of 28 VOCs were detected in 2016, with 10 VOCs being detected in at least one monitoring well at a concentration that exceeded the MCL or tapwater RSL (Table 2). Sixteen (16) monitoring wells had at least one VOC above the MCL or RSL. 1,1-Dichloroethane was the most frequently detected compound exceeding its MCL, being detected in six wells above its screening level. 1,2-Dichlorobenzene and chlorobenzene were the most frequently detected VOCs (detected in 14 and 17 of 38 wells, respectively); however, only no detections of 1,2-dichlorobenzene exceeded its drinking water screening level while five detections of chlorobenzene exceeded its screening level (MW-EPA-1, UAW05-20, UAW07-20, UAW08-20, and UAW12-20). Two VOCs (1,3-dichlorobenzene and methylcyclohexane) were detected in 2016; however, a MCL or RSL has not been established for these two compounds.

For VOCs compared to groundwater to indoor air (GWIA) screening levels (Table 5), nine VOCs were detected in 18 wells above the residential GWIA screening levels. Six VOCs in eight wells were detected above GWIA for a commercial scenario. 1,4-Dichlorobenzene was the most frequently detected VOC above commercial GWIA screening levels and monitoring well UAW08-20 had the most VOCs above residential and commercial GWIA screening levels (four VOCs).

When compared to Region 4 Freshwater Chronic Ecological Screening Levels, nine VOCs in ten monitoring wells were detected above the screening levels (Table 8). The most frequently detected VOCs above the Region 4 screening levels were 1,2-dichlorobenzene, chlorobenzene and 1,4-dichlorobenzene. The wells that had the most detected VOCs above Region 4 screening levels were UAW08-20, UAW-12-20 and UAW13-20. Similarly, when the data are compared to Ohio WQC, eight VOCs were detected above Ohio WQC in ten wells (Table 11).

In the shallow Upper Aquifer sands, the measured concentrations of VOCs are generally highest in the northwestern area of the site, as shown on Figures 4, 6 and 7. The VOC concentrations are generally within or lower than historical concentration ranges except for one detection of acetone in MW-EPA-1. Historically, acetone has been detected as high as 4,100 ug/L in this well (November 2008); however, in 2016, acetone was detected at a concentration of 38,000 ug/L. Occasional elevated detections of acetone have appeared periodically in wells located at the site, with historical detections being as high as 23,000 ug/L in UAW05-20 in 2012, 32,000 ug/L in UAW10-80 in 2001 and 45,000 ug/L in UAW06-20 in 2001.

In the deep Upper Aquifer sands, the measured concentrations of VOCs are highest in the northeastern area of the site, as depicted on Figures 4, 6 and 7. The concentrations of VOCs in wells in the northeastern area were generally within the historical ranges for each well.

4.2.3 SVOCS

Twenty-four of the 41 groundwater samples (including duplicates) collected in 2016 indicated one or more SVOCs above reporting limits, as indicated in Table 3. A total of 26 SVOCs, including 16 polycyclic aromatic hydrocarbons (PAHs), were detected in 2016 with nine SVOCs being detected in seven monitoring wells at concentrations that exceeded the MCL or

tapwater RSL. Aniline was the most frequently detected SVOC above the MCL/RSL (three exceedances). Monitoring location UAW22-20 had the most detections above the MCL/RSLs primarily due to the detections of PAHs in the well. At the time this well was sampled, the sampling technicians noted that the well pad around UAW22-20 had been damaged by on-going demolition of some nearby buildings, so the PAH detections; which are fairly low, could be the result of damaged asphalt around the well. PAHs have not been detected in this well previously except for one minor detection of naphthalene in November 2004 at a concentration of 0.89 J ug/L.

When compared to GWIA screening levels, the only SVOCs that were detected in site groundwater and meet the volatility requirements were biphenyl and naphthalene. Naphthalene was detected once in MW-EPA-1 above a residential GWIA screening level, but it was not detected above a commercial GWIA screening level (Table 6). Biphenyl was not detected above either the residential or commercial GWIA screening level.

When the SVOC data are compared to Region 4 Freshwater Chronic Screening Levels (Table 9), 12 SVOCs were detected in five wells above a Region 4 screening level. Aniline was the most frequently detected SVOC above a Region 4 screening level (four detections were above the Region 4 screening levels), along with a single detection of biphenyl and PAHs, primarily detected in UAW22-20. Wells that had the most detections of SVOCs above a Region 4 screening level were UAW22-20 and MW-EPA-1. Similarly, when the data are compared to Ohio WQC for SVOCs, 12 SVOCs were detected above an Ohio WQC (Table 12) consisting of aniline, biphenyl and PAHs.

The concentrations of detected SVOCs in samples collected during the 2016 event were generally consistent with historical concentrations (i.e., within historical concentration range). PAHs were detected at low concentrations in six of the wells sampled in 2016. Low concentrations of PAHs were also detected in 2008 and 2010.

In the shallow Upper Aquifer sands, the measured concentrations of SVOCs are generally limited to the northwestern area of the site; and in the deep upper aquifer, the measured concentrations of SVOCs are generally non-detect (Figures 4, 6 and 7).

4.2.4 INORGANIC COMPOUNDS

During the 2016 sampling, 22 inorganic compounds (including essential nutrients) were detected above laboratory detection limits within the samples analyzed, as indicated in Tables 4, 7, 10 and 13 and on Figures 5 and 7. Mercury and silver were not detected in any of the groundwater samples in 2016. Ten metals were detected in 28 wells at a concentration that exceeded a MCL or tapwater RSL (Table 4). Arsenic, chromium and manganese were the most frequently detected metals above the MCL/RSL. Wells with the most exceedances of a MCL/RSL for a metal were MW-EPA-1 and MW-EPA-4.

As mercury was not detected in any of the groundwater samples, no metals were detected above a GWIA screening level (Table 7).

When compared to Region 4 Freshwater Chronic screening levels (Table 10), 17 metals were above the Region 4 screening levels in 35 of the wells. The most commonly detected metals above the Region 4 screening levels included calcium, iron, manganese, aluminum, chromium, nickel and tin. Wells with the most Region 4 screening level exceedances were UAW22-20 and MW-EPA-1. When compared to Ohio WQC (Table 13), only ten metals were detected above Ohio WQC. This is because Ohio has not established WQC for aluminum, calcium, iron, magnesium, manganese, potassium, or sodium. Most of the Ohio WQC exceedances in groundwater were associated with tin and chromium.

The concentrations of metals in samples collected during this reporting period are generally consistent with historical concentrations.

4.3 GROUNDWATER TRENDS

Mann-Kendall statistical analyses, using ProUCL, Version 5.1, were performed on the most frequently detected constituents in select wells to determine if potential statistically significant trends in concentration levels could be

discerned. The ProUCL software statistical output summaries are included in Appendix E. Available data dating back to May 2001 were utilized for the trend analyses.

When reviewing the Mann-Kendall trend test analyses in Appendix E, it should be noted that the Mann-Kendall statistic value listed is a calculated indicator of a potential trend. The higher the Mann-Kendall statistic value (regardless of +/- sign), the more likely a trend exists. A confidence coefficient of 0.95 was used to determine significance of the trend. Mann-Kendall analyses indicated the following concentration trends at this time for site-related constituents in the five selected wells for analysis:

MW-EPA-1:	
Arsenic	Decreasing Trend
Tin	Decreasing Trend
Aniline	Insufficient Evidence of a Trend
Chlorobenzene	Increasing Trend
1,2-Dichlorobenzene	Decreasing Trend
1,4-Dichlorobenzene	Insufficient Evidence of a Trend

UAW05-20:	
Tin	Increasing Trend
Aniline	Insufficient Evidence of a Trend
Chlorobenzene	Increasing Trend
1,2-Dichlorobenzene	Insufficient Evidence of a Trend
1,4-Dichlorobenzene	Insufficient Evidence of a Trend

MW08-20:	
Tin	Insufficient Evidence of a Trend
Aniline	Decreasing Trend
Chlorobenzene	Increasing Trend
1,2-Dichlorobenzene	Insufficient Evidence of a Trend
1,4-Dichlorobenzene	Insufficient Evidence of a Trend

UAW12-20:	
Chlorobenzene	Decreasing Trend
1,2-Dichlorobenzene	Decreasing Trend
1,4-Dichlorobenzene	Decreasing Trend

UAW20-60	
1,1-Dichloroethane	Decreasing Trend
1,2-Dichloroethane	Insufficient Evidence of a Trend
cis-1,2-Dichloroethene	Decreasing Trend

UAW20-60	
Tetrachloroethene	Increasing Trend
1,1,1-Trichloroethane	Decreasing Trend
Trichloroethene	Insufficient Evidence of a Trend

The increasing trends of chlorobenzene noted in wells MW-EPA-1, UAW05-20 and UAW08-20 could be the result of the breakdown of 1,2-dichlorobenzene, 1,4-dichlorobenzene and other chlorinated benzenes detected in these wells. For tetrachloroethene, although it shows an overall increasing trend in well UAW20-60, concentrations were increasing until 2009 and since then, have been decreasing or stable. Also, one of the limitations of the Mann-Kendall trend test is that it does not account for the magnitude of the data. The smaller the concentrations, the more sensitive the test is to changes in the magnitude of the numbers. Thus, the Mann-Kendall test may conclude that a series of fluctuating concentrations at low concentrations is an increasing trend when actually it likely represents a stable trend. For the increasing tin trend observed in UAW05-20, concentrations seemed to have peaked in 2012 and appear to be returning to levels observed in 2008 - 2010. For the constituents where the Mann-Kendall trend test concluded the data having insufficient evidence of a trend, most appear to be either stable or slowly decreasing. Overall, the Mann-Kendall trend analyses indicate mostly decreasing or stable concentrations in site-wide groundwater; except for chlorobenzene, which may be showing an increasing trend at some locations as a natural result of the breakdown of other chlorinated benzenes also detected in these wells and showing decreasing trends.

4.4 FRENCH DRAIN EFFECTIVENESS

In November 2016, Rohm and Haas was informed by the current property owner that the groundwater extraction system was off-line and had been off-line since September 2016 due to a pump failure. The USEPA requested on December 15, 2016 that the system be re-started and kept operational until the 2016 supplemental groundwater data could be reviewed. On December 20, 2016, Parsons technicians inspected the system and determined that sump pump had to be replaced. The new pump was installed on January 18, 2017 and the system was brought back into service on January 25, 2017 after a series of leak tests and flow calibration tests. As the system was effectively shut down for approximately three months prior to collecting the December 2016 groundwater samples, the 2016 samples are indicative of groundwater concentrations at the site without being under the influence of pumping. Essentially, these samples are reflective of concentrations that may be obtained during shut-down of the system. As evidenced by the data presented in the tables, the 2016 groundwater concentrations are generally lower than or consistent with what has been historically detected at the site with few exceptions. Thus, permanent shut-down of the French Drain and groundwater extraction system would not appear to have a negative impact on site groundwater concentrations or constituents that may migrate to Mill Creek.

In addition, to further understand the movement of constituents in site groundwater and as requested by the USEPA, a 3D visualization model is being built to help understand the geological structure and contaminant plume. The two geological data sets provided by the USEPA have been merged and the geological interpretations and modeling is in progress. The model is focused on site specifics and will not cover the larger region of previous models which will allow for improved visualization of groundwater movement at just the former Rohm and Haas site. It is anticipated that the 3D model will be ready for viewing the week of February 27, 2017.

Section 5
Conclusions

Thirty-eight wells completed in the Upper Aquifer were sampled between December 1 and 15, 2016 as part of voluntary sampling to update current site conditions. Water levels were measured in the upper aquifer wells and in the three lower aquifer wells. The current groundwater flow direction and hydraulic gradients are consistent with historical information. The concentrations of VOCs, SVOCs, and inorganic compounds in groundwater samples collected during this reporting period are generally consistent with historical concentrations and within the historical concentration range. Acetone was the only VOC detected at a concentration much higher than in previous events. Acetone was detected at a concentration nearly 10 times that previously detected in MW-EPA-1; however, periodic detections of acetone at similar concentrations have been observed in various wells across the site historically.

Detected concentrations of VOCs in site-wide groundwater are generally highest in the northwestern area of the site in the shallow Upper Aquifer and highest in the northeastern area of the site in the deeper Upper Aquifer. For SVOCs, in the shallow Upper Aquifer, the measured concentrations are generally limited to the northwestern area of the site; and in the deep Upper Aquifer, the measured concentrations of SVOCs are generally non-detect. Metals are generally more widespread across the site, with no discernible pattern; however, tin was generally detected at higher concentrations in the northwestern portion of the site.

Note that the 2016 groundwater sampling event was conducted during a period of time when the French Drain and groundwater extraction system was off-line for approximately three months. As evidenced by the data presented in the tables, concentrations detected in 2016 are generally lower than or consistent with what has been historically detected at the site with few exceptions. Mann-Kendall trend test analyses indicate overall decreasing or stable concentrations in site-wide groundwater. Thus, permanent shut-down of the French Drain and groundwater extraction system would not appear to have a negative impact on site groundwater or constituents that may migrate to Mill Creek.

Future use of the site is to stay light industrial/commercial based on plans for redevelopment of the site as communicated by the current site owner. When compared to screening levels for the protection of human health, some exceedances of drinking water and groundwater to indoor air screening levels occur. However, as groundwater is not used for potable purposes and no buildings are located within 100 feet of a well with constituents detected above groundwater to indoor air screening levels, no unacceptable risk to human health have been identified for current use of the site. Additionally, exposure to groundwater constituents by future users of the site can likely be controlled using institutional and/or engineering controls, such as restricting future residential use of the site and prohibiting installation of drinking water wells. Also, as concentrations of constituents have remained similar to the concentrations historically observed during the temporary shut-down of the groundwater extraction system, no constituents were identified as being a concern for the migration pathway to Mill Creek should the groundwater extraction system be permanently shut-down.

Section 6
References

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Tables

Table 1
Groundwater Elevations
1 December 2016
Rohm and Haas Chemicals LLC
Former Cincinnati Plant

Well ID.	Well Completion Location	Top of Riser Elevation[1]	Depth to Groundwater	Groundwater Elevation[1]
MW-EPA-1	Shallow UA Sands	553.75	11.10	542.65
MW-EPA-2	Shallow UA Sands	575.95	9.75	566.20
MW-EPA-3	Shallow UA Sands	577.85	10.27	567.58
MW-EPA-4	Shallow UA Sands	560.64	16.79	543.85
UAW01-30	Shallow UA Sands	564.33	25.70	538.63
UAW02-20	Shallow UA Sands	551.63	12.38	539.25
UAW03-20	Shallow UA Sands	552.10	12.25	539.85
UAW04-20	Shallow UA Sands	552.66	11.15	541.51
UAW05-20	Shallow UA Sands	553.62	11.73	541.89
UAW06-20	Shallow UA Sands	553.31	11.09	542.22
UAW07-20	Shallow UA Sands	554.38	11.21	543.17
UAW08-20	Shallow UA Sands	554.25	10.56	543.69
UAW09-20	Shallow UA Sands	565.95	22.42	543.53
UAW11-10	Shallow UA Sands	553.58	9.29	544.29
UAW12-20	Shallow UA Sands	555.26	12.30	542.96
UAW13-20	Shallow UA Sands	555.26	10.76	544.50
UAW14-10	Shallow UA Sands	566.85	9.27	557.58
UAW15-20	Shallow UA Sands	561.35	11.07	550.28
UAW16-10	Shallow UA Sands	554.73	10.52	544.21
UAW17-40	Shallow UA Sands	577.19	12.59	564.60
UAW18-20	Shallow UA Sands	556.24	12.21	544.03
UAW21-30	Shallow UA Sands	565.82	25.34	540.48
UAW22-20	Shallow UA Sands	557.71	12.92	544.79
UAW25-20	Shallow UA Sands	556.16	17.24	538.92
UAW01-80	Deep UA Sands	564.28	25.68	538.60
UAW02-40	Deep UA Sands	551.63	13.75	537.88
UAW09-60	Deep UA Sands	566.40	27.95	538.45
UAW10-50	Deep UA Sands	577.79	38.25	539.54
UAW10-80	Deep UA Sands	577.85	39.14	538.71
UAW11-40	Deep UA Sands	553.47	15.20	538.27
UAW15-50	Deep UA Sands	561.01	22.38	538.63
UAW19-80	Deep UA Sands	580.26	41.13	539.13
UAW20-60	Deep UA Sands	576.19	36.74	539.45
UAW21-80	Deep UA Sands	565.48	28.23	537.25
UAW23-20	Deep UA Sands	559.15	19.99	539.16
UAW24-70	Deep UA Sands	575.99	36.92	539.07
UAW26-70	Deep UA Sands	559.60	21.13	538.47
UAW27-50	Deep UA Sands	574.77	35.59	539.18
LAW05-150	Lower Aquifer	553.62	15.75	537.87
LAW05-60	Lower Aquifer	553.70	15.68	538.02
LAW12-60	Lower Aquifer	554.95	16.70	538.25

[1]All depths in feet, all elevations in feet above mean sea level

Table 2
2016 Groundwater Data Screened Against Drinking Water Criteria - VOCs
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Reading, Ohio

		ANALYTES (µg/L)																											
Location	Sample Date	1,1,1-TRICHLOROETHANE	1,1,2-TRICHLOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHYLENE	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE	ACETONE	BENZENE	CARBON DISULFIDE	CHLORINATED FLUOROCARBON (FREON 113)	CHLOROBENZENE	CHLOROFORM	CIS-1,2-DICHLOROETHYLENE	CYCLOHEXANE	ETHYLBENZENE	ISOPROPYLBENZENE (CUMENE)	METHYLENE CHLORIDE	METHYL ETHYL KETONE (2-BUTANONE)	METHYL ISOBUTYL KETONE	METHYLCYLOHEXANE	TETRACHLOROETHYLENE(PCE)	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRICHLOROETHYLENE	VINYL CHLORIDE	XYLENES, TOTAL
Groundwater MCL/RSL		200	5	2.8^	7	600	5	NE	75	14000^	5	810^	55000^	100	80	70	13000^	700	450^	5	5600^	6300^	NE	5	1000	100	5	2	10000
West Perimeter Wells (ordered North to South)																													
UAW07-20	12/9/2016	< 5	< 5	< 5	< 5	170	< 5	5.3	38	< 50	1.4 J	78	< 5	**390**	< 5	< 5	< 5	< 5	1.3 J	**6.2**	< 50	< 50	< 5	< 5	< 5	< 5	< 5	< 5	1.3 J
UAW08-20	12/9/2016	< 17	< 17	< 17	< 17	490 J	< 17	9 J	55 J	< 170	**120 J**	250 J	< 17	**140 J**	< 17	< 17	< 17	76 J	< 17	**19 J**	< 170	24 J	45 J	< 17	51 J	< 17	< 17	< 17	220 J
MW-EPA-1	12/13/2016	< 200	< 200	< 200	< 200	300	< 200	< 200	**330**	**38000**	< 200	< 200	< 200	**5200**	< 200	< 200	< 200	< 200	< 200	< 200 U	< 2000	< 2000	< 200	< 200	< 200	< 200	< 200	< 200	< 400
UAW05-20	12/9/2016	< 2	< 2	< 2	< 2	410	< 2	16	**110**	16 J	9.5	3.3	< 2	**570**	< 2	< 2	1.2 J	11	0.92 J	2	< 20	5.9 J	4	< 2	4.9	< 2	< 2	< 2	19
UAW06-20	12/9/2016	< 1	< 1	0.47 J	< 1	39	< 1	1.5	8.9	< 10	0.6 J	< 1	< 1	84	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	0.41 J	< 1	< 1	< 1	< 2
UAW03-20	12/7/2016	< 1	< 1	< 1	< 1	8.1	< 1	< 1	1.8	< 10	0.77 J	< 1	< 1	14	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW04-20	12/7/2016	< 1	< 1	< 1	< 1	< 1.1 U	< 1	< 1	< 1 U	< 10	< 1	< 1	< 1	1.7	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW02-20	12/7/2016	< 1	< 1	< 1	< 1	13	< 1	0.69 J	4.2	< 10	< 1	< 1	< 1	2.2	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW02-40	12/7/2016	< 1	< 1	**4.7**	2.6	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	21	< 1	< 1	< 1	< 1	< 10	< 10	< 1	0.36 J	< 1	< 1	< 1	**6**	< 2
UAW02-40 DUP	12/7/2016	< 1	< 1	**4.7**	2.6	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	20	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	**5.8**	< 2
UAW25-20	12/6/2016	< 1	< 1	< 1	< 1	1.8	< 1	< 1	0.72 J	< 10	< 1	< 1	< 1	0.39 J	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW01-30	12/6/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW01-80	12/6/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	0.3 J	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	**2.9**	< 2
North Perimeter Wells (ordered from East to West)																													
UAW10-80	12/15/2016	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW10-50	12/14/2016	1	< 1	1.8	< 1	< 1	0.38 J	< 1	< 1	< 10	< 1	< 1	< 1	< 1	4.4	3.6	< 1	< 1	< 1	< 1	< 10	< 10	< 1	5	< 1	0.29 J	1.2	< 1	< 2
UAW20-60	12/14/2016	7.2	1.7	**4.4**	1.7	< 1	5	< 1	< 1	< 10	< 1	< 1	3.8	0.7 J	0.79 J	13	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**77**	< 1	0.82 J	**5.2**	< 1	< 2
UAW20-60 DUP	12/14/2016	7.7	1.8	**4.7**	2.1	< 1	**5.2**	< 1	< 1	< 10	< 1	< 1	4.6	0.57 J	0.8 J	14	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**81**	< 1	0.92 J	**5.8**	< 1	< 2
MW-EPA-2	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.77 J	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**56**	< 1	< 1	0.41 J	< 1	< 2
UAW23-20	12/13/2016	7.3	0.61 J	**5.1**	0.49 J	< 1	< 1	< 1	< 1	< 10	< 1	< 1	0.65 J	< 1	4.8	2.7	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**10**	< 1	0.57 J	1.7	< 1	< 2
UAW12-20	12/9/2016	< 14	< 14	< 14	< 14	400	< 14	37	**110**	< 140	< 14	150	< 14	**340**	< 14	< 14	< 14	< 14	< 14	**19**	< 140	< 140	< 14	< 14	< 14	< 14	< 14	< 14	< 29
UAW13-20	12/9/2016	< 10	< 10	< 10	< 10	320	< 10	< 10	36	< 100	**7.8 J**	32	< 10	64	< 10	< 10	< 10	19	< 10	**16**	< 100	< 100	< 10	< 10	9.3 J	< 10	< 10	< 10	28
Center Wells (ordered from North to South)																													
UAW22-20	12/14/2016	< 1	< 1	1.5	0.47 J	27	0.77 J	0.62 J	3.4	< 10	< 1	< 1	< 1	5.9	< 1	1.1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	0.52 J	< 2
UAW11-10	12/8/2016	< 1	< 1	**5.3**	0.31 J	6.5	< 1	0.39 J	2.5	< 10	0.45 J	< 1	< 1	3.7	< 1	14	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	0.58 J	0.47 J	< 1	< 1	< 2
UAW11-40	12/8/2016	2.2	< 1	1.9	< 1	< 1	2.4	< 1	< 1	< 10	< 1	< 1	< 1	3.8	0.39 J	2	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**11**	< 1	< 1	1.9	< 1	< 2
UAW16-10	12/8/2016	< 1	< 1	< 1	< 1	6.9	< 1	< 1	3.3	35	0.29 J	< 1	< 1	3.2	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW16-10 DUP	12/8/2016	< 1	< 1	< 1	< 1	6.6	< 1	< 1	3.2	29	0.28 J	0.42 J	< 1	3.1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW15-50	12/8/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	9 J	< 1	0.44 J	< 1	2.2	< 1	< 1	< 1	< 1	< 1	< 1	1.6 J	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW15-20	12/8/2016	< 1	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	3.4	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW18-20	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	5.1 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	1.3 J	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW26-70	12/8/2016	< 1	< 1	< 1	< 1	1.9	< 1	< 1	< 1 U	< 10	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
MW-EPA-4	12/8/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW09-20	12/5/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	7.3	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW09-60	12/2/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW21-30	12/13/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.67 J	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**7.3**	< 1	< 1	< 1	< 1	< 2
UAW21-80	12/13/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
East Perimeter Wells (ordered from North to South)																													
MW-EPA-3	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW19-80	12/15/2016	4.6	0.43 J	**6.7**	0.65 J	< 1	**14**	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.53 J	13	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	0.69 J	0.71 J	< 1	< 2
UAW27-50	12/15/2016	5.8	0.38 J	**4.3**	0.77 J	< 1	0.48 J	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.38 J	11	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	0.44 J	1.4	< 1	< 2
UAW24-70	12/15/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW17-40	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW14-10	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2

Note: Only detected compounds are included in the table.
Bold Indicates concentrations above the applicable MCL or tapwater RSL if no MCL available.
MCL = Maximumum contaminant level; RSL = Regional Screening Level for Tapwater; NE = None established
The MCL is presented. If no MCL, then the RSL is shown and indicated with a "^".
"J" flag indicates an estimated value detected below the method reporting limit.
RSL based on a target risk of 1E-06 and hazard quotient of 1 (May 2016).

Table 3
2016 Groundwater Data Screened Against Drinking Water Criteria - SVOCs
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Reading, Ohio

		ANALYTES (µg/L)																									
Location	Sample Date	2-CHLOROPHENOL	2-METHYLNAPHTHALENE	ACENAPHTHENE	ACENAPHTHYLENE	ANILINE	ANTHRACENE	BENZALDEHYDE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	BENZO(K)FLUORANTHENE	BIPHENYL (DIPHENYL)	CAPROLACTAM	CARBAZOLE	CHRYSENE	CRESOLS, M & P	DIBENZOFURAN	FLUORANTHENE	FLUORENE	INDENO(1,2,3-C,D)PYRENE	NAPHTHALENE	PENTACHLOROPHENOL	PHENANTHRENE	PHENOL	PYRENE
Groundwater MCL/RSL		91^	36^	530^	NE	13^	1800^	19^	0.012^	0.2	0.034^	NE	0.34^	0.83^	9900^	NE	3.4^	930^	7.9^	800^	290^	0.034^	0.17^	1	NE	5800^	120^
West Perimeter Wells (ordered North to South)																											
UAW07-20	12/9/2016	< 3.8	< 0.77	< 0.77	< 0.77	2.9 J	< 0.77	< 7.7	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 3.8	< 19	< 3.8	< 0.77	< 7.7	< 3.8	< 0.77	< 0.77	< 0.77	< 0.77	< 150	< 0.77	< 3.8	< 0.77
UAW08-20	12/9/2016	< 10	< 2	< 2	< 2	**180**	< 2	< 20	< 2	< 2	< 2	< 2	< 2	**8 J**	< 50	< 10	< 2	< 20	< 10	< 2	< 2	< 2	< 2	< 400	< 2	< 10	< 2
MW-EPA-1	12/13/2016	9.8	1.6 J	< 1.1	24 J	**130 J**	3.2 J	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 5.4	< 27	< 5.4	< 1.1	8.3 J	< 5.4	3.7 J	< 1.1	< 1.1	**11 J**	< 220	9.1 J	3.8 J	9.3 J
UAW05-20	12/9/2016	3	< 0.21	< 0.21	< 0.21	**16**	< 0.21	9.2	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	2.4	< 0.21
UAW06-20	12/9/2016	< 1	< 0.2	0.28	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	0.32	< 0.2	< 0.2	< 40	< 0.2	0.57 J	< 0.2
UAW03-20	12/7/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	4.5 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW04-20	12/7/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	1.7 J	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	< 0.96	< 0.19
UAW02-20	12/7/2016	< 0.93	< 0.19	< 0.19	< 0.19	< 4.6	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.93	< 4.6	< 0.93	< 0.19	< 1.9	< 0.93	< 0.19	< 0.19	< 0.19	< 0.19	< 37	< 0.19	< 0.93	< 0.19
UAW02-40	12/7/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	1.8 J	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW02-40 DUP	12/7/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	2.3 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW25-20	12/6/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	4.3 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW01-30	12/6/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	2.6 J	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW01-80	12/6/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	3.3 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
North Perimeter Wells (ordered from East to West)																											
UAW10-80	12/15/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW10-50	12/14/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW20-60	12/14/2016	< 1.1	< 0.23	< 0.23	< 0.23	< 5.7	< 0.23	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 5.7	< 1.1	< 0.23	< 2.3	< 1.1	< 0.23	< 0.23	< 0.23	< 0.23	< 45	< 0.23	< 1.1	< 0.23
UAW20-60 DUP	12/14/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	< 5.4	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
MW-EPA-2	12/14/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW23-20	12/13/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW12-20	12/9/2016	< 1.1	< 0.22	< 0.22	< 0.22	1.5 J	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	4.8 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW13-20	12/9/2016	< 4	< 0.8	< 0.8	< 0.8	9.8 J	< 0.8	< 8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 4	< 20	< 4	< 0.8	< 8	< 4	< 0.8	< 0.8	< 0.8	< 0.8	< 160	< 0.8	< 4	< 0.8
Center Wells (ordered from North to South)																											
UAW22-20	12/14/2016	< 1.1	< 0.23	0.62	< 0.23	< 5.7	1.1	< 2.3	**2.2**	**2.1**	**3.1**	1.1	**1.5**	< 1.1	< 5.7	1.7	2.4	< 2.3	0.36 J	5.9	0.39	**1.1**	**0.23**	< 45	3.2	0.38 J	4.6
UAW11-10	12/8/2016	< 1.3	< 0.25	< 0.25	< 0.25	< 6.3	< 0.25	< 2.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.3	6.9	< 1.3	< 0.25	< 2.5	< 1.3	< 0.25	< 0.25	< 0.25	< 0.25	< 50	< 0.25	< 1.3	< 0.25
UAW11-40	12/8/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 4.8	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	< 0.96	< 0.19
UAW16-10	12/8/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	2.5	< 0.2
UAW16-10 DUP	12/8/2016	< 0.96	< 0.19	< 0.19	< 0.19	0.81 J	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 4.8	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	1.6	< 0.19
UAW15-50	12/8/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	4.2 J	< 1	< 0.2	< 2	< 1	0.26	< 0.2	< 0.2	< 0.2	**8.6 J**	< 0.2	< 1	0.23
UAW15-20	12/8/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	5 J	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW18-20	12/14/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	**0.45**	< 0.19	0.2	< 0.96	< 4.8	< 0.96	0.37	< 1.9	< 0.96	0.59	< 0.19	< 0.19	< 0.19	< 38	0.24	< 0.96	0.49
UAW26-70	12/8/2016	< 1.2	< 0.24	< 0.24	< 0.24	< 6	< 0.24	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 1.2	< 6	< 1.2	< 0.24	< 2.4	< 1.2	< 0.24	< 0.24	< 0.24	< 0.24	< 48	< 0.24	< 1.2	< 0.24
MW-EPA-4	12/8/2016	< 0.93	< 0.19	< 0.19	< 0.19	< 4.6	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.93	< 4.6	< 0.93	< 0.19	< 1.9	< 0.93	< 0.19	< 0.19	< 0.19	< 0.19	< 37	< 0.19	< 0.93	< 0.19
UAW09-20	12/5/2016	< 1.1	< 0.23	< 0.23	< 0.23	< 5.7	< 0.23	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	2.7 J	< 1.1	< 0.23	< 2.3	< 1.1	< 0.23	< 0.23	< 0.23	< 0.23	< 45	< 0.23	< 1.1	< 0.23
UAW09-60	12/2/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	2.2 J	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	< 0.96	< 0.19
UAW21-30	12/13/2016	< 1.1	< 0.23	< 0.23	< 0.23	< 5.7	< 0.23	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 5.7	< 1.1	< 0.23	< 2.3	< 1.1	< 0.23	< 0.23	< 0.23	< 0.23	< 45	< 0.23	< 1.1	< 0.23
UAW21-80	12/13/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
East Perimeter Wells (ordered from North to South)																											
MW-EPA-3	12/14/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW19-80	12/15/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW27-50	12/15/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW24-70	12/15/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	**0.22**	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	0.26	< 2.1	< 1	0.55	< 0.21	< 0.21	< 0.21	< 42	0.41	< 1	0.45
UAW17-40	12/14/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW14-10	12/14/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21

Note: Only detected compounds are included in the table.
Bold Indicates concentrations above the applicable MCL or tapwater RSL if no MCL available
MCL = Maximumum contaminant level; RSL = Regional Screening Level for Tapwater; NE = None established
The MCL is presented. If no MCL, then the RSL is shown and indicated with a "^".
"J" flag indicates an estimated value detected below the method reporting limit.
RSL based on a target risk of 1E-06 and hazard quotient of 1 (May 2016).

Table 4
2016 Groundwater Data Screened Against Drinking Water Criteria - Metals
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Reading, Ohio

		ANALYTES (µg/L)																				
Location	Sample Date	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM, TOTAL	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	NICKEL	POTASSIUM	SELENIUM	SODIUM	THALLIUM	TIN	VANADIUM	ZINC
Groundwater MCL/RSL		20000^	6	10	2000	4	5	NE	100	6^	1300	14000^	15	NE	430^	390^	NE	50	NE	2	12000^	86^	6000^
West Perimeter Wells (ordered North to South)																							
UAW07-20	12/9/2016	57 J	< 10	< 10	40 J	< 5	< 2	270000	3.1 J	< 7	< 25	100	3.8 J	34000	**1100**	2.9 J	6300	< 15	310000	< 10	300	< 10	< 50
UAW08-20	12/9/2016	< 200	< 10	**30**	75 J	< 5	0.88 J	1000000	23	1.9 J	< 130	56 J	10	120000	400	12 J	14000	< 15	780000	< 10	4500	< 10	< 50
MW-EPA-1	12/13/2016	< 200 U	**18**	**340**	**5300**	0.39 J	< 2	390000	39	< 7	< 25	**25000**	< 5	330000	200	58	27000	< 15	1200000	< 10	4200	**250**	24 J
UAW05-20	12/9/2016	130 J	< 10	**15**	80 J	< 5	< 2	220000	**4500**	**6.3 J**	< 25	14000	3.7 J	71000	430	**630**	6400	< 15	580000	< 10	2200	24	< 50
UAW06-20	12/9/2016	270	< 10	3.6 J	76 J	< 5	< 2	180000	3 J	< 7	< 25	720	4.1 J	32000	**950**	5.1 J	4300 J	< 15	370000	< 10	400	4.7 J	< 50
UAW03-20	12/7/2016	2100	< 10	< 10	49 J	< 5	< 2	110000	20	2.2 J	14 J	4400	5.5	18000	**450**	57	4300 J	< 15	220000	< 10	350	6.8 J	48 J
UAW04-20	12/7/2016	120 J	**16**	7.8 J	42 J	< 5	< 2	69000	**170**	2.3 J	< 25	2300	< 5	13000	160	270	2200 J	< 15	64000	< 10	60 J	< 10	< 50
UAW02-20	12/7/2016	< 200	< 10	< 10	110 J	< 5	< 2	180000	11	< 7	< 25	3100	2.7 J	36000	**570**	20 J	2200 J	< 15	240000	< 10	85 J	< 10	< 50
UAW02-40	12/7/2016	240 J	< 10	3.6 J	200	< 5	< 2	150000	22	< 7	11 J	13000	4.6 J	33000	**1100**	1.8 J	2300 J	< 15	87000	< 10	2.6 J	< 10	35 J
UAW02-40 DUP	12/7/2016	99 J	< 10	< 10	180 J	< 5	< 2	150000	18	< 7	6.1 J	9000	3.4 J	33000	**1100**	1.7 J	2200 J	< 15	88000	< 10	< 100	< 10	16 J
UAW25-20	12/6/2016	< 200	< 10	**12**	180 J	0.24 J	< 2	230000	**120**	< 7	< 25	6600	< 5	41000	**590**	30 J	7800	< 15	330000	< 10	29 J	< 10	< 50
UAW01-30	12/6/2016	< 200	< 10	4.6 J	110 J	0.22 J	< 2	120000	**220**	< 7	< 25	2400	< 5	30000	**580**	47	6400	< 15	330000	< 10	3.7 J	< 10	< 50
UAW01-80	12/6/2016	< 200	< 10	3.8 J	280	< 5	0.31 J	100000	< 5	< 7	< 25	8900	< 5	28000	420	< 40	1400 J	< 15	44000	< 10	< 100	< 10	< 50
North Perimeter Wells (ordered from East to West)																							
UAW10-80	12/15/2016	< 200 U	< 10	**15**	48 J	< 5	< 2	22000	< 5	< 7	< 25	77 J	< 5	1800 J	15	< 40	900 J	< 15	< 5000 U	< 10	< 100	< 10	< 50
UAW10-50	12/14/2016	200	< 10	< 10	41 J	< 5	< 2	160000	0.67 J	< 7	< 25 U	240	2.4 J	50000	190	3.7 J	1800 J	< 15	35000	< 10	< 100	< 10	< 50
UAW20-60	12/14/2016	< 200	< 10	< 10	17 J	< 5	0.49 J	220000	< 5	< 7	< 25	< 100 U	< 5	74000	61	1.8 J	2000 J	< 15	63000	**2.6 J**	< 100 U	< 10	< 50
UAW20-60 DUP	12/14/2016	< 200	< 10	< 10	17 J	0.25 J	0.57 J	220000	< 5 U	< 7	< 25	< 100 U	< 5	73000	61	1.8 J	2000 J	< 15	62000	< 10	< 100 U	< 10	< 50
MW-EPA-2	12/14/2016	650	< 10	< 10	150 J	0.3 J	0.6 J	160000	**220**	3.2 J	9.9 J	1800	< 5	47000	320	130	3000 J	< 15	600000	< 10	20 J	< 10	23 J
UAW23-20	12/13/2016	< 200	< 10	< 10	47 J	< 5	0.32 J	270000	54	< 7	< 25	7200	< 5	65000	79	45	23000	30	97000	< 10	< 100	< 10	< 50
UAW12-20	12/9/2016	< 200	< 10	6.3 J	44 J	< 5	< 2	590000	19	< 7	< 25	240	7.1	38000	**2900**	7.7 J	7400	< 15	320000	< 10	450	< 10	< 50
UAW13-20	12/9/2016	140 J	< 10	**15**	5.2 J	< 5	0.35 J	750000	**570**	< 7	5.3 J	1800	11	56000	**2700**	27 J	4800 J	< 15	460000	< 10	1300	< 10	18 J
Center Wells (ordered from North to South)																							
UAW22-20	12/14/2016	2800	5 J	9.8 J	220	0.37 J	**6.8**	300000	11	2.1 J	29	**17000**	13	61000	**4700**	16 J	12000	< 15	1600000	< 10	320	6.3 J	490
UAW11-10	12/8/2016	81 J	< 10	**13**	140 J	< 5	< 2	140000	2.7 J	0.84 J	< 25	4300	2.2 J	28000	**2400**	9.1 J	4200 J	< 15	460000	< 10	520	< 10	< 50
UAW11-40	12/8/2016	340	< 10	3.4 J	26 J	< 5	0.36 J	190000	74	3.5 J	6.2 J	1100	5.2	45000	**1400**	36 J	4000 J	< 15	220000	< 10	60 J	< 10	18 J
UAW16-10	12/8/2016	100 J	< 10	4.2 J	45 J	< 5	< 2	180000	3.2 J	0.94 J	< 25	1400	3.5 J	33000	**980**	9.7 J	6800	< 15	300000	< 10	1100	< 10	22 J
UAW16-10 DUP	12/8/2016	85 J	< 10	< 10	44 J	< 5	< 2	170000	2.7 J	0.94 J	3.9 J	1300	2.9 J	31000	**910**	8.2 J	6500	< 15	270000	< 10	860	< 10	19 J
UAW15-50	12/8/2016	770	4.2 J	**12**	40 J	< 5	0.93 J	54000	12	0.87 J	45	2400	9.1	4900 J	120	6.3 J	1800 J	< 15	13000	< 10	290	< 10	190
UAW15-20	12/8/2016	< 200	< 10	< 10	73 J	< 5	< 2	84000	**130**	3.2 J	3.9 J	1100	2 J	21000	17	58	1900 J	< 15	340000	< 10	59 J	< 10	< 50
UAW18-20	12/14/2016	2000	< 10	< 10	38 J	< 5	< 2	39000	6.9	< 7	16 J	2100	9.2	3400 J	79	7.2 J	1800 J	< 15	34000	< 10	99 J	10	79
UAW26-70	12/8/2016	< 200	< 10	**13**	260	< 5	< 2	130000	2 J	< 7	< 25	3100	2.5 J	43000	280	1.6 J	1600 J	< 15	28000	< 10	< 100	< 10	< 50
MW-EPA-4	12/8/2016	< 200	< 10	7.3 J	91 J	< 5	< 2	100000	**7700**	**13**	130	**16000**	< 5	25000	250	**660**	2600 J	< 15	240000	**3.3 J**	30 J	41	< 50
UAW09-20	12/5/2016	< 200	< 10	< 10	57 J	0.21 J	0.44 J	110000	56	< 7	< 25	170	< 5	30000	< 15	15 J	900 J	< 15	40000	< 10	< 100	< 10	< 50
UAW09-60	12/2/2016	< 200	< 10	8 J	190 J	< 5	< 2	100000	1.5 J	< 7	< 25	< 100	2.5 J	36000	93	1.8 J	1100 J	< 15	14000	< 10	< 100	< 10	< 50
UAW21-30	12/13/2016	< 200	< 10	< 10	71 J	< 5	< 2	100000	**300**	**6.2 J**	< 25 U	3200	< 5	27000	63	220	2700 J	< 15	39000	**2.1 J**	< 100	< 10	< 50
UAW21-80	12/13/2016	160 J	< 10	**85**	200	< 5	< 2	120000	< 5 U	< 7	< 25	3700	< 5	40000	**660**	4.7 J	1200 J	< 15	44000	< 10	< 100	< 10	< 50
East Perimeter Wells (ordered from North to South)																							
MW-EPA-3	12/14/2016	1400	< 10	< 10	220	0.28 J	0.72 J	270000	**220**	**18**	10 J	4300	3.2 J	93000	**910**	290	2500 J	< 15	84000	< 10	< 100 U	8.8 J	93
UAW19-80	12/15/2016	< 200 U	< 10	< 10	64 J	0.26 J	< 2	160000	0.68 J	< 7	< 25	< 100 U	< 5	48000	17	< 40	1700 J	< 15	66000	< 10	< 100	< 10	< 50
UAW27-50	12/15/2016	< 200	< 10	< 10	41 J	0.29 J	< 2	170000	3.7 J	< 7	< 25	78 J	< 5	52000	33	4.4 J	1500 J	< 15	40000	< 10	< 100	< 10	< 50
UAW24-70	12/15/2016	< 200	< 10	< 10	180 J	< 5	0.72 J	75000	0.75 J	< 7	< 25 U	74 J	< 5	21000	< 15	4.9 J	3200 J	< 15	77000	< 10	22 J	< 10	18 J
UAW17-40	12/14/2016	< 200 U	< 10	**32**	230	< 5	< 2	93000	< 5	< 7	< 25	6700	< 5	28000	150	< 40	640 J	< 15	7900	< 10	< 100	< 10	< 50
UAW14-10	12/14/2016	< 200	< 10	6.8 J	80 J	< 5	< 2	97000	6.7	< 7	< 25	4000	< 5	28000	35	3.5 J	850 J	< 15	26000	< 10	< 100	< 10	< 50

Note: Only detected compounds are included in the table.
Bold Indicates concentrations above the applicable MCL or tapwater RSL if no MCL available
MCL = Maximumum contaminant level; RSL = Regional Screening Level for Tapwater; NE = None established
The MCL is presented. If no MCL, then the RSL is shown and indicated with a "^".
"J" flag indicates an estimated value detected below the method reporting limit.
RSL based on a target risk of 1E-06 and hazard quotient of 1 (May 2016).

Table 5
2016 Groundwater Data Screened Against Groundwater to Indoor Air Screening Levels - VOCs
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Reading, Ohio

		ANALYTES (µg/L)																										
Location	Sample Date	1,1,1-TRICHLOROETHANE	1,1,2-TRICHLOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHYLENE	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE	ACETONE	BENZENE	CARBON DISULFIDE	CHLORINATED FLUOROCARBON (FREON 113)	CHLOROBENZENE	CHLOROFORM	CIS-1,2-DICHLOROETHYLENE	CYCLOHEXANE	ETHYLBENZENE	ISOPROPYLBENZENE (CUMENE)	METHYLENE CHORIDE	METHYL ETHYL KETONE (2-BUTANONE)	METHYL ISOBUTYL KETONE	METHYLCYLOHEXANE	TETRACHLOROETHYLENE(PCE)	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRICHLOROETHYLENE	VINYL CHLORIDE	XYLENES, TOTAL
Groundwater to Indoor Air VISLs - Residential		**12000**	**9.1**	**12**	**280**	**5300**	**3.7**	**NE**	**5**	**3.50E+07**	**2.5**	**1800**	**2200**	**730**	**1.3**	**NE**	**1600**	**6.3**	**1900**	**1100**	**3.70E+06**	**9.80E+05**	**NE**	**26**	**33000**	**NE**	**2**	**0.2**	**700**
Groundwater to Indoor Air VISLs - Commercial		**49000**	**40**	**51**	**1200**	**22000**	**16**	**NE**	**22**	**1.50E+08**	**11**	**7700**	**9200**	**3100**	**5.5**	**NE**	**6800**	**28**	**7800**	**14000**	**1.50E+07**	**4.10E+06**	**NE**	**110**	**1.40E+05**	**NE**	**12**	**3.3**	**2900**
West Perimeter Wells (ordered North to South)																												
UAW07-20	12/9/2016	< 5	< 5	< 5	< 5	170	< 5	5.3	**38**	< 50	1.4 J	78	< 5	390	< 5	< 5	< 5	< 5	1.3 J	6.2	< 50	< 50	< 5	< 5	< 5	< 5	< 5	< 5	1.3 J
UAW08-20	12/9/2016	< 17	< 17	< 17	< 17	490 J	< 17	9 J	**55 J**	< 170	**120 J**	250 J	< 17	**140 J**	< 17	< 17	< 17	**76 J**	< 17	19 J	< 170	24 J	45 J	< 17	51 J	< 17	< 17	< 17	220 J
MW-EPA-1	12/13/2016	< 200	< 200	< 200	< 200	300	< 200	< 200	**330**	38000	< 200	< 200	< 200	**5200**	< 200	< 200	< 200	< 200	< 200	< 200 U	< 2000	< 2000	< 200	< 200	< 200	< 200	< 200	< 200	< 400
UAW05-20	12/9/2016	< 2	< 2	< 2	< 2	410	< 2	16	**110**	16 J	**9.5**	3.3	< 2	570	< 2	< 2	1.2 J	**11**	0.92 J	2	< 20	5.9 J	4	< 2	4.9	< 2	< 2	< 2	19
UAW06-20	12/9/2016	< 1	< 1	0.47 J	< 1	39	< 1	1.5	**8.9**	< 10	0.6 J	< 1	< 1	84	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	0.41 J	< 1	< 1	< 1	< 2
UAW03-20	12/7/2016	< 1	< 1	< 1	< 1	8.1	< 1	< 1	1.8	< 10	0.77 J	< 1	< 1	14	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW04-20	12/7/2016	< 1	< 1	< 1	< 1	< 1.1 U	< 1	< 1	< 1 U	< 10	< 1	< 1	< 1	1.7	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW02-20	12/7/2016	< 1	< 1	< 1	< 1	13	< 1	0.69 J	**4.2**	< 10	< 1	< 1	< 1	2.2	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW02-40	12/7/2016	< 1	< 1	4.7	2.6	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	21	< 1	< 1	< 1	< 1	< 10	< 10	< 1	0.36 J	< 1	< 1	< 1	**6**	< 2
UAW02-40 DUP	12/7/2016	< 1	< 1	4.7	2.6	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	20	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	**5.8**	< 2
UAW25-20	12/6/2016	< 1	< 1	< 1	< 1	1.8	< 1	< 1	0.72 J	< 10	< 1	< 1	< 1	0.39 J	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW01-30	12/6/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW01-80	12/6/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	0.3 J	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	**2.9**	< 2
North Perimeter Wells (ordered from East to West)																												
UAW10-80	12/15/2016	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW10-50	12/14/2016	1	< 1	1.8	< 1	< 1	0.38 J	< 1	< 1	< 10	< 1	< 1	< 1	< 1	**4.4**	3.6	< 1	< 1	< 1	< 1	< 10	< 10	< 1	5	< 1	0.29 J	1.2	< 1	< 2
UAW20-60	12/14/2016	7.2	1.7	4.4	1.7	< 1	**5**	< 1	< 1	< 10	< 1	< 1	3.8	0.7 J	0.79 J	13	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**77**	< 1	0.82 J	**5.2**	< 1	< 2
UAW20-60 DUP	12/14/2016	7.7	1.8	4.7	2.1	< 1	**5.2**	< 1	< 1	< 10	< 1	< 1	4.6	0.57 J	0.8 J	14	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**81**	< 1	0.92 J	**5.8**	< 1	< 2
MW-EPA-2	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.77 J	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**56**	< 1	< 1	0.41 J	< 1	< 2
UAW23-20	12/13/2016	7.3	0.61 J	5.1	0.49 J	< 1	< 1	< 1	< 1	< 10	< 1	< 1	0.65 J	< 1	**4.8**	2.7	< 1	< 1	< 1	< 1	< 10	< 10	< 1	10	< 1	0.57 J	1.7	< 1	< 2
UAW12-20	12/9/2016	< 14	< 14	< 14	< 14	400	< 14	37	**110**	< 140	< 14	150	< 14	340	< 14	< 14	< 14	< 14	< 14	19	< 140	< 140	< 14	< 14	< 14	< 14	< 14	< 14	< 29
UAW13-20	12/9/2016	< 10	< 10	< 10	< 10	320	< 10	< 10	**36**	< 100	**7.8 J**	32	< 10	64	< 10	< 10	< 10	**19**	< 10	16	< 100	< 100	< 10	< 10	9.3 J	< 10	< 10	< 10	28
Center Wells (ordered from North to South)																												
UAW22-20	12/14/2016	< 1	< 1	1.5	0.47 J	27	0.77 J	0.62 J	3.4	< 10	< 1	< 1	< 1	5.9	< 1	1.1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	**0.52 J**	< 2
UAW11-10	12/8/2016	< 1	< 1	5.3	0.31 J	6.5	< 1	0.39 J	2.5	< 10	0.45 J	< 1	< 1	3.7	< 1	14	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	0.58 J	0.47 J	< 1	< 1	< 2
UAW11-40	12/8/2016	2.2	< 1	1.9	< 1	< 1	2.4	< 1	< 1	< 10	< 1	< 1	< 1	3.8	0.39 J	2	< 1	< 1	< 1	< 1	< 10	< 10	< 1	11	< 1	< 1	1.9	< 1	< 2
UAW16-10	12/8/2016	< 1	< 1	< 1	< 1	6.9	< 1	< 1	3.3	35	0.29 J	< 1	< 1	3.2	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW16-10 DUP	12/8/2016	< 1	< 1	< 1	< 1	6.6	< 1	< 1	3.2	29	0.28 J	0.42 J	< 1	3.1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW15-50	12/8/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	9 J	< 1	0.44 J	< 1	2.2	< 1	< 1	< 1	< 1	< 1	< 1	1.6 J	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW15-20	12/8/2016	< 1	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	**3.4**	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW18-20	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	5.1 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	1.3 J	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW26-70	12/8/2016	< 1	< 1	< 1	< 1	1.9	< 1	< 1	< 1 U	< 10	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
MW-EPA-4	12/8/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW09-20	12/5/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	**7.3**	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW09-60	12/2/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW21-30	12/13/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.67 J	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	7.3	< 1	< 1	< 1	< 1	< 2
UAW21-80	12/13/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
East Perimeter Wells (ordered from North to South)																												
MW-EPA-3	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW19-80	12/15/2016	4.6	0.43 J	6.7	0.65 J	< 1	**14**	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.53 J	13	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	0.69 J	0.71 J	< 1	< 2
UAW27-50	12/15/2016	5.8	0.38 J	4.3	0.77 J	< 1	0.48 J	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.38 J	11	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	0.44 J	1.4	< 1	< 2
UAW24-70	12/15/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW17-40	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW14-10	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2

Note: Only detected compounds are included in the table.

Bold Indicates concentrations above the applicable residential target groundwater concentration for indoor air at a risk level of 1 x 10^{-6} and HQ = 1.

Bold Indicates concentrations above the applicable commercial target groundwater concentration for indoor air at a risk level of 1 x 10^{-6} and HQ = 1.

"J" flag indicates an estimated value detected below the method reporting limit.

NE = Not established

Groundwater to Indoor Air Vapor Intrusion Screening Levels (VISLs) based on USEPA calculator Version 3.5.1 using an average groundwater temperature of 15°C.

Table 6
2016 Groundwater Data Screened Against Groundwater to Indoor Air Screening Levels - SVOCs
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Reading, Ohio

		ANALYTES (µg/L)																									
Location	Sample Date	2-CHLOROPHENOL	2-METHYLNAPHTHALENE	ACENAPHTHENE	ACENAPHTHYLENE	ANILINE	ANTHRACENE	BENZALDEHYDE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	BENZO(K)FLUORANTHENE	BIPHENYL (DIPHENYL)	CAPROLACTAM	CARBAZOLE	CHRYSENE	CRESOLS, M & P	DIBENZOFURAN	FLUORANTHENE	FLUORENE	INDENO(1,2,3-C,D)PYRENE	NAPHTHALENE	PENTACHLOROPHENOL	PHENANTHRENE	PHENOL	PYRENE
Groundwater to Indoor Air VISLs - Residential		NE	NE	NE	NE	NV	NE	NE	NE	NV	NV	NE	NV	75	NV	NE	NV	NV	NE	NV	NE	NV	9.8	NV	NE	NV	NE
Groundwater to Indoor Air VISLs - Commercial		NE	NE	NE	NE	NV	NE	NE	NE	NV	NV	NE	NV	320	NV	NE	NV	NV	NE	NV	NE	NV	43	NV	NE	NV	NE
West Perimeter Wells (ordered North to South)																											
UAW07-20	12/9/2016	< 3.8	< 0.77	< 0.77	< 0.77	2.9 J	< 0.77	< 7.7	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 3.8	< 19	< 3.8	< 0.77	< 7.7	< 3.8	< 0.77	< 0.77	< 0.77	< 0.77	< 150	< 0.77	< 3.8	< 0.77
UAW08-20	12/9/2016	< 10	< 2	< 2	< 2	180	< 2	< 20	< 2	< 2	< 2	< 2	< 2	8 J	< 50	< 10	< 2	< 20	< 10	< 2	< 2	< 2	< 2	< 400	< 2	< 10	< 2
MW-EPA-1	12/13/2016	9.8	1.6 J	< 1.1	24 J	130 J	3.2 J	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 5.4	< 27	< 5.4	< 1.1	8.3 J	< 5.4	3.7 J	< 1.1	< 1.1	**11 J**	< 220	9.1 J	3.8 J	9.3 J
UAW05-20	12/9/2016	3	< 0.21	< 0.21	< 0.21	16	< 0.21	9.2	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	2.4	< 0.21
UAW06-20	12/9/2016	< 1	< 0.2	0.28	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	0.32	< 0.2	< 0.2	< 40	< 0.2	0.57 J	< 0.2
UAW03-20	12/7/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	4.5 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW04-20	12/7/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	1.7 J	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	< 0.96	< 0.19
UAW02-20	12/7/2016	< 0.93	< 0.19	< 0.19	< 0.19	< 4.6	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.93	< 4.6	< 0.93	< 0.19	< 1.9	< 0.93	< 0.19	< 0.19	< 0.19	< 0.19	< 37	< 0.19	< 0.93	< 0.19
UAW02-40	12/7/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	1.8 J	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW02-40 DUP	12/7/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	2.3 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW25-20	12/6/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	4.3 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW01-30	12/6/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	2.6 J	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW01-80	12/6/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	3.3 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
North Perimeter Wells (ordered from East to West)																											
UAW10-80	12/15/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW10-50	12/14/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW20-60	12/14/2016	< 1.1	< 0.23	< 0.23	< 0.23	< 5.7	< 0.23	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 5.7	< 1.1	< 0.23	< 2.3	< 1.1	< 0.23	< 0.23	< 0.23	< 0.23	< 45	< 0.23	< 1.1	< 0.23
UAW20-60 DUP	12/14/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	< 5.4	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
MW-EPA-2	12/14/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW23-20	12/13/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW12-20	12/9/2016	< 1.1	< 0.22	< 0.22	< 0.22	1.5 J	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	4.8 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW13-20	12/9/2016	< 4	< 0.8	< 0.8	< 0.8	9.8 J	< 0.8	< 8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 4	< 20	< 4	< 0.8	< 8	< 4	< 0.8	< 0.8	< 0.8	< 0.8	< 160	< 0.8	< 4	< 0.8
Center Wells (ordered from North to South)																											
UAW22-20	12/14/2016	< 1.1	< 0.23	0.62	< 0.23	< 5.7	1.1	< 2.3	2.2	2.1	3.1	1.1	1.5	< 1.1	< 5.7	1.7	2.4	< 2.3	0.36 J	5.9	0.39	1.1	0.23	< 45	3.2	0.38 J	4.6
UAW11-10	12/8/2016	< 1.3	< 0.25	< 0.25	< 0.25	< 6.3	< 0.25	< 2.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.3	6.9	< 1.3	< 0.25	< 2.5	< 1.3	< 0.25	< 0.25	< 0.25	< 0.25	< 50	< 0.25	< 1.3	< 0.25
UAW11-40	12/8/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 4.8	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	< 0.96	< 0.19
UAW16-10	12/8/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	2.5	< 0.2
UAW16-10 DUP	12/8/2016	< 0.96	< 0.19	< 0.19	< 0.19	0.81 J	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 4.8	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	1.6	< 0.19
UAW15-50	12/8/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	4.2 J	< 1	< 0.2	< 2	< 1	0.26	< 0.2	< 0.2	< 0.2	8.6 J	< 0.2	< 1	0.23
UAW15-20	12/8/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	5 J	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW18-20	12/14/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	0.45	< 0.19	0.2	< 0.96	< 4.8	< 0.96	0.37	< 1.9	< 0.96	0.59	< 0.19	< 0.19	< 0.19	< 38	0.24	< 0.96	0.49
UAW26-70	12/8/2016	< 1.2	< 0.24	< 0.24	< 0.24	< 6	< 0.24	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 1.2	< 6	< 1.2	< 0.24	< 2.4	< 1.2	< 0.24	< 0.24	< 0.24	< 0.24	< 48	< 0.24	< 1.2	< 0.24
MW-EPA-4	12/8/2016	< 0.93	< 0.19	< 0.19	< 0.19	< 4.6	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.93	< 4.6	< 0.93	< 0.19	< 1.9	< 0.93	< 0.19	< 0.19	< 0.19	< 0.19	< 37	< 0.19	< 0.93	< 0.19
UAW09-20	12/5/2016	< 1.1	< 0.23	< 0.23	< 0.23	< 5.7	< 0.23	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	2.7 J	< 1.1	< 0.23	< 2.3	< 1.1	< 0.23	< 0.23	< 0.23	< 0.23	< 45	< 0.23	< 1.1	< 0.23
UAW09-60	12/2/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	2.2 J	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	< 0.96	< 0.19
UAW21-30	12/13/2016	< 1.1	< 0.23	< 0.23	< 0.23	< 5.7	< 0.23	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 5.7	< 1.1	< 0.23	< 2.3	< 1.1	< 0.23	< 0.23	< 0.23	< 0.23	< 45	< 0.23	< 1.1	< 0.23
UAW21-80	12/13/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
East Perimeter Wells (ordered from North to South)																											
MW-EPA-3	12/14/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW14-10	12/14/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW17-40	12/14/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW19-80	12/15/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW24-70	12/15/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	0.22	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	0.26	< 2.1	< 1	0.55	< 0.21	< 0.21	< 0.21	< 42	0.41	< 1	0.45
UAW27-50	12/15/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2

Note: Only detected compounds are included in the table.

Bold Indicates concentrations above the applicable residential target groundwater concentration for indoor air at a risk level of 1 x 10^{-6} and HQ = 1.

"J" flag indicates an estimated value detected below the method reporting limit.

NE = Not established

NV = Not volatile

Groundwater to Indoor Air Vapor Intrusion Screening Levels (VISLs) based on USEPA calculator Version 3.5.1 using an average groundwater temperature of 15°C.

Table 7
2016 Groundwater Data Screened Against Groundwater to Indoor Air Screening Levels - Metals
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Reading, Ohio

		ANALYTES (µg/L)																					
Location	Sample Date	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM, TOTAL	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	NICKEL	POTASSIUM	SELENIUM	SODIUM	THALLIUM	TIN	VANADIUM	ZINC
Groundwater to Indoor Air VISLs - Residential		NV	NV	NV	NV	NV	NV	NE	NV	NV	NV	NV	NV	NE	NV	NV	NE	NV	NE	NV	NV	NV	NV
Groundwater to Indoor Air VISLs - Commercial		NV	NV	NV	NV	NV	NV	NE	NV	NV	NV	NV	NV	NE	NV	NV	NE	NV	NE	NV	NV	NV	NV
West Perimeter Wells (ordered North to South)																							
UAW07-20	12/9/2016	57 J	< 10	< 10	40 J	< 5	< 2	270000	3.1 J	< 7	< 25	100	3.8 J	34000	1100	2.9 J	6300	< 15	310000	< 10	300	< 10	< 50
UAW08-20	12/9/2016	< 200	< 10	30	75 J	< 5	0.88 J	1000000	23	1.9 J	< 130	56 J	10	120000	400	12 J	14000	< 15	780000	< 10	4500	< 10	< 50
MW-EPA-1	12/13/2016	< 200 U	18	340	5300	0.39 J	< 2	390000	39	< 7	< 25	25000	< 5	330000	200	58	27000	< 15	1200000	< 10	4200	**250**	24 J
UAW05-20	12/9/2016	130 J	< 10	15	80 J	< 5	< 2	220000	4500	6.3 J	< 25	14000	3.7 J	71000	430	630	6400	< 15	580000	< 10	2200	24	< 50
UAW06-20	12/9/2016	270	< 10	3.6 J	76 J	< 5	< 2	180000	3 J	< 7	< 25	720	4.1 J	32000	950	5.1 J	4300 J	< 15	370000	< 10	400	4.7 J	< 50
UAW03-20	12/7/2016	2100	< 10	< 10	49 J	< 5	< 2	110000	20	2.2 J	14 J	4400	5.5	18000	450	57	4300 J	< 15	220000	< 10	350	6.8 J	48 J
UAW04-20	12/7/2016	120 J	16	7.8 J	42 J	< 5	< 2	69000	170	2.3 J	< 25	2300	< 5	13000	160	270	2200 J	< 15	64000	< 10	60 J	< 10	< 50
UAW02-20	12/7/2016	< 200	< 10	< 10	110 J	< 5	< 2	180000	11	< 7	< 25	3100	2.7 J	36000	570	20 J	2200 J	< 15	240000	< 10	85 J	< 10	< 50
UAW02-40	12/7/2016	240 J	< 10	3.6 J	200	< 5	< 2	150000	22	< 7	11 J	13000	4.6 J	33000	1100	1.8 J	2300 J	< 15	87000	< 10	2.6 J	< 10	35 J
UAW02-40 DUP	12/7/2016	99 J	< 10	< 10	180 J	< 5	< 2	150000	18	< 7	6.1 J	9000	3.4 J	33000	1100	1.7 J	2200 J	< 15	88000	< 10	< 100	< 10	16 J
UAW25-20	12/6/2016	< 200	< 10	12	180 J	0.24 J	< 2	230000	120	< 7	< 25	6600	< 5	41000	590	30 J	7800	< 15	330000	< 10	29 J	< 10	< 50
UAW01-30	12/6/2016	< 200	< 10	4.6 J	110 J	0.22 J	< 2	120000	220	< 7	< 25	2400	< 5	30000	580	47	6400	< 15	330000	< 10	3.7 J	< 10	< 50
UAW01-80	12/6/2016	< 200	< 10	3.8 J	280	< 5	0.31 J	100000	< 5	< 7	< 25	8900	< 5	28000	420	< 40	1400 J	< 15	44000	< 10	< 100	< 10	< 50
North Perimeter Wells (ordered from East to West)																							
UAW10-80	12/15/2016	< 200 U	< 10	15	48 J	< 5	< 2	22000	< 5	< 7	< 25	77 J	< 5	1800 J	15	< 40	900 J	< 15	< 5000 U	< 10	< 100	< 10	< 50
UAW10-50	12/14/2016	200	< 10	< 10	41 J	< 5	< 2	160000	0.67 J	< 7	< 25 U	240	2.4 J	50000	190	3.7 J	1800 J	< 15	35000	< 10	< 100	< 10	< 50
UAW20-60	12/14/2016	< 200	< 10	< 10	17 J	< 5	0.49 J	220000	< 5	< 7	< 25	< 100 U	< 5	74000	61	1.8 J	2000 J	< 15	63000	2.6 J	< 100 U	< 10	< 50
UAW20-60 DUP	12/14/2016	< 200	< 10	< 10	17 J	0.25 J	0.57 J	220000	< 5 U	< 7	< 25	< 100 U	< 5	73000	61	1.8 J	2000 J	< 15	62000	< 10	< 100 U	< 10	< 50
MW-EPA-2	12/14/2016	650	< 10	< 10	150 J	0.3 J	0.6 J	160000	220	3.2 J	9.9 J	1800	< 5	47000	320	130	3000 J	< 15	600000	< 10	20 J	< 10	23 J
UAW23-20	12/13/2016	< 200	< 10	< 10	47 J	< 5	0.32 J	270000	54	< 7	< 25	7200	< 5	65000	79	45	23000	30	97000	< 10	< 100	< 10	< 50
UAW12-20	12/9/2016	< 200	< 10	6.3 J	44 J	< 5	< 2	590000	19	< 7	< 25	240	7.1	38000	2900	7.7 J	7400	< 15	320000	< 10	450	< 10	< 50
UAW13-20	12/9/2016	140 J	< 10	15	5.2 J	< 5	0.35 J	750000	570	< 7	5.3 J	1800	11	56000	2700	27 J	4800 J	< 15	460000	< 10	1300	< 10	18 J
Center Wells (ordered from North to South)																							
UAW22-20	12/14/2016	2800	5 J	9.8 J	220	0.37 J	6.8	300000	11	2.1 J	29	17000	13	61000	4700	16 J	12000	< 15	1600000	< 10	320	6.3 J	490
UAW11-10	12/8/2016	81 J	< 10	13	140 J	< 5	< 2	140000	2.7 J	0.84 J	< 25	4300	2.2 J	28000	2400	9.1 J	4200 J	< 15	460000	< 10	520	< 10	< 50
UAW11-40	12/8/2016	340	< 10	3.4 J	26 J	< 5	0.36 J	190000	74	3.5 J	6.2 J	1100	5.2	45000	1400	36 J	4000 J	< 15	220000	< 10	60 J	< 10	18 J
UAW16-10	12/8/2016	100 J	< 10	4.2 J	45 J	< 5	< 2	180000	3.2 J	0.94 J	< 25	1400	3.5 J	33000	980	9.7 J	6800	< 15	300000	< 10	1100	< 10	22 J
UAW16-10 DUP	12/8/2016	85 J	< 10	< 10	44 J	< 5	< 2	170000	2.7 J	0.94 J	3.9 J	1300	2.9 J	31000	910	8.2 J	6500	< 15	270000	< 10	860	< 10	19 J
UAW15-50	12/8/2016	770	4.2 J	12	40 J	< 5	0.93 J	54000	12	0.87 J	45	2400	9.1	4900 J	120	6.3 J	1800 J	< 15	13000	< 10	290	< 10	190
UAW15-20	12/8/2016	< 200	< 10	< 10	73 J	< 5	< 2	84000	130	3.2 J	3.9 J	1100	2 J	21000	17	58	1900 J	< 15	340000	< 10	59 J	< 10	< 50
UAW18-20	12/14/2016	2000	< 10	< 10	38 J	< 5	< 2	39000	6.9	< 7	16 J	2100	9.2	3400 J	79	7.2 J	1800 J	< 15	34000	< 10	99 J	10	79
UAW26-70	12/8/2016	< 200	< 10	13	260	< 5	< 2	130000	2 J	< 7	< 25	3100	2.5 J	43000	280	1.6 J	1600 J	< 15	28000	< 10	< 100	< 10	< 50
MW-EPA-4	12/8/2016	< 200	< 10	7.3 J	91 J	< 5	< 2	100000	7700	13	130	16000	< 5	25000	250	660	2600 J	< 15	240000	3.3 J	30 J	41	< 50
UAW09-20	12/5/2016	< 200	< 10	< 10	57 J	0.21 J	0.44 J	110000	56	< 7	< 25	170	< 5	30000	< 15	15 J	900 J	< 15	40000	< 10	< 100	< 10	< 50
UAW09-60	12/2/2016	< 200	< 10	8 J	190 J	< 5	< 2	100000	1.5 J	< 7	< 25	< 100	2.5 J	36000	93	1.8 J	1100 J	< 15	14000	< 10	< 100	< 10	< 50
UAW21-30	12/13/2016	< 200	< 10	< 10	71 J	< 5	< 2	100000	300	6.2 J	< 25 U	3200	< 5	27000	63	220	2700 J	< 15	39000	2.1 J	< 100	< 10	< 50
UAW21-80	12/13/2016	160 J	< 10	85	200	< 5	< 2	120000	< 5 U	< 7	< 25	3700	< 5	40000	660	4.7 J	1200 J	< 15	44000	< 10	< 100	< 10	< 50
East Perimeter Wells (ordered from North to South)																							
MW-EPA-3	12/14/2016	1400	< 10	< 10	220	0.28 J	0.72 J	270000	220	18	10 J	4300	3.2 J	93000	910	290	2500 J	< 15	84000	< 10	< 100 U	8.8 J	93
UAW19-80	12/15/2016	< 200 U	< 10	< 10	64 J	0.26 J	< 2	160000	0.68 J	< 7	< 25	< 100 U	< 5	48000	17	< 40	1700 J	< 15	66000	< 10	< 100	< 10	< 50
UAW27-50	12/15/2016	< 200	< 10	< 10	41 J	0.29 J	< 2	170000	3.7 J	< 7	< 25	78 J	< 5	52000	33	4.4 J	1500 J	< 15	40000	< 10	< 100	< 10	< 50
UAW24-70	12/15/2016	< 200	< 10	< 10	180 J	< 5	0.72 J	75000	0.75 J	< 7	< 25 U	74 J	< 5	21000	< 15	4.9 J	3200 J	< 15	77000	< 10	22 J	< 10	18 J
UAW17-40	12/14/2016	< 200 U	< 10	32	230	< 5	< 2	93000	< 5	< 7	< 25	6700	< 5	28000	150	< 40	640 J	< 15	7900	< 10	< 100	< 10	< 50
UAW14-10	12/14/2016	< 200	< 10	6.8 J	80 J	< 5	< 2	97000	6.7	< 7	< 25	4000	< 5	28000	35	3.5 J	850 J	< 15	26000	< 10	< 100	< 10	< 50

Note: Only detected compounds are included in the table.
"J" flag indicates an estimated value detected below the method reporting limit.
NE = Not established
NV = Not volatile
Groundwater to Indoor Air Vapor Intrusion Screening Levels (VISLs) based on USEPA calculator Version 3.5.1 using an average groundwater temperature of 15°C.

Table 8
2016 Groundwater Data Screened Against USEPA Region 4 Freshwater Chronic Ecological Screening Levels - VOCs
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Reading, Ohio

		ANALYTES (µg/L)																										
Location	Sample Date	1,1,1-TRICHLOROETHANE	1,1,2-TRICHLOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHYLENE	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE	ACETONE	BENZENE	CARBON DISULFIDE	CHLORINATED FLUOROCARBON (FREON 113)	CHLOROBENZENE	CHLOROFORM	CIS-1,2-DICHLOROETHYLENE	CYCLOHEXANE	ETHYLBENZENE	ISOPROPYLBENZENE (CUMENE)	METHYLENE CHLORIDE	METHYL ETHYL KETONE (2-BUTANONE)	METHYL ISOBUTYL KETONE	METHYLCYLOHEXANE	TETRACHLOROETHYLENE(PCE)	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRICHLOROETHYLENE	VINYL CHLORIDE	XYLENES, TOTAL
Region 4 Freshwater Screening Values (Chronic)		**76**	**730**	**410**	**130**	**23**	**2000**	**22**	**9.4**	**1700**	**160**	**15**	**NE**	**25**	**140**	**620**	**230**	**61**	**4.8**	**1500**	**22000**	**170**	**NE**	**53**	**62**	**558**	**200**	**930**	**27**
West Perimeter Wells (ordered North to South)																												
UAW07-20	12/9/2016	< 5	< 5	< 5	< 5	**170**	< 5	5.3	**38**	< 50	1.4 J	**78**	< 5	**390**	< 5	< 5	< 5	< 5	1.3 J	6.2	< 50	< 50	< 5	< 5	< 5	< 5	< 5	< 5	1.3 J
UAW08-20	12/9/2016	< 17	< 17	< 17	< 17	**490 J**	< 17	9 J	**55 J**	< 170	120 J	**250 J**	< 17	**140 J**	< 17	< 17	< 17	**76 J**	< 17	19 J	< 170	24 J	45 J	< 17	51 J	< 17	< 17	< 17	**220 J**
MW-EPA-1	12/13/2016	< 200	< 200	< 200	< 200	**300**	< 200	< 200	**330**	**38000**	< 200	< 200	< 200	**5200**	< 200	< 200	< 200	< 200	< 200	< 200 U	< 2000	< 2000	< 200	< 200	< 200	< 200	< 200	< 200	< 400
UAW05-20	12/9/2016	< 2	< 2	< 2	< 2	**410**	< 2	16	**110**	16 J	9.5	3.3	< 2	**570**	< 2	< 2	1.2 J	11	0.92 J	2	< 20	5.9 J	4	< 2	4.9	< 2	< 2	< 2	19
UAW06-20	12/9/2016	< 1	< 1	0.47 J	< 1	**39**	< 1	1.5	8.9	< 10	0.6 J	< 1	< 1	**84**	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	0.41 J	< 1	< 1	< 1	< 2
UAW03-20	12/7/2016	< 1	< 1	< 1	< 1	8.1	< 1	< 1	1.8	< 10	0.77 J	< 1	< 1	14	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW04-20	12/7/2016	< 1	< 1	< 1	< 1	< 1.1 U	< 1	< 1	< 1 U	< 10	< 1	< 1	< 1	1.7	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW02-20	12/7/2016	< 1	< 1	< 1	< 1	13	< 1	0.69 J	4.2	< 10	< 1	< 1	< 1	2.2	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW02-40	12/7/2016	< 1	< 1	4.7	2.6	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	21	< 1	< 1	< 1	< 1	< 10	< 10	< 1	0.36 J	< 1	< 1	< 1	6	< 2
UAW02-40 DUP	12/7/2016	< 1	< 1	4.7	2.6	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	20	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	5.8	< 2
UAW25-20	12/6/2016	< 1	< 1	< 1	< 1	1.8	< 1	< 1	0.72 J	< 10	< 1	< 1	< 1	0.39 J	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW01-30	12/6/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW01-80	12/6/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	0.3 J	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	2.9	< 2
North Perimeter Wells (ordered from East to West)																												
UAW10-80	12/15/2016	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW10-50	12/14/2016	1	< 1	1.8	< 1	< 1	0.38 J	< 1	< 1	< 10	< 1	< 1	< 1	< 1	4.4	3.6	< 1	< 1	< 1	< 1	< 10	< 10	< 1	5	< 1	0.29 J	1.2	< 1	< 2
UAW20-60	12/14/2016	7.2	1.7	4.4	1.7	< 1	5	< 1	< 1	< 10	< 1	< 1	3.8	0.7 J	0.79 J	13	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**77**	< 1	0.82 J	5.2	< 1	< 2
UAW20-60 DUP	12/14/2016	7.7	1.8	4.7	2.1	< 1	5.2	< 1	< 1	< 10	< 1	< 1	4.6	0.57 J	0.8 J	14	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**81**	< 1	0.92 J	5.8	< 1	< 2
MW-EPA-2	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.77 J	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**56**	< 1	< 1	0.41 J	< 1	< 2
UAW23-20	12/13/2016	7.3	0.61 J	5.1	0.49 J	< 1	< 1	< 1	< 1	< 10	< 1	< 1	0.65 J	< 1	4.8	2.7	< 1	< 1	< 1	< 1	< 10	< 10	< 1	10	< 1	0.57 J	1.7	< 1	< 2
UAW12-20	12/9/2016	< 14	< 14	< 14	< 14	**400**	< 14	**37**	**110**	< 140	< 14	**150**	< 14	**340**	< 14	< 14	< 14	< 14	< 14	19	< 140	< 140	< 14	< 14	< 14	< 14	< 14	< 14	< 29
UAW13-20	12/9/2016	< 10	< 10	< 10	< 10	**320**	< 10	< 10	**36**	< 100	7.8 J	**32**	< 10	**64**	< 10	< 10	< 10	19	< 10	16	< 100	< 100	< 10	< 10	9.3 J	< 10	< 10	< 10	**28**
Center Wells (ordered from North to South)																												
UAW22-20	12/14/2016	< 1	< 1	1.5	0.47 J	**27**	0.77 J	0.62 J	3.4	< 10	< 1	< 1	< 1	5.9	< 1	1.1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	0.52 J	< 2
UAW11-10	12/8/2016	< 1	< 1	5.3	0.31 J	6.5	< 1	0.39 J	2.5	< 10	0.45 J	< 1	< 1	3.7	< 1	14	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	0.58 J	0.47 J	< 1	< 1	< 2
UAW11-40	12/8/2016	2.2	< 1	1.9	< 1	< 1	2.4	< 1	< 1	< 10	< 1	< 1	< 1	3.8	0.39 J	2	< 1	< 1	< 1	< 1	< 10	< 10	< 1	11	< 1	< 1	1.9	< 1	< 2
UAW16-10	12/8/2016	< 1	< 1	< 1	< 1	6.9	< 1	< 1	3.3	35	0.29 J	< 1	< 1	3.2	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW16-10 DUP	12/8/2016	< 1	< 1	< 1	< 1	6.6	< 1	< 1	3.2	29	0.28 J	0.42 J	< 1	3.1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW15-50	12/8/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	9 J	< 1	0.44 J	< 1	2.2	< 1	< 1	< 1	< 1	< 1	< 1	1.6 J	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW15-20	12/8/2016	< 1	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	3.4	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW18-20	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	5.1 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	1.3 J	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW26-70	12/8/2016	< 1	< 1	< 1	< 1	1.9	< 1	< 1	< 1 U	< 10	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
MW-EPA-4	12/8/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW09-20	12/5/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	7.3	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW09-60	12/2/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW21-30	12/13/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.67 J	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	7.3	< 1	< 1	< 1	< 1	< 2
UAW21-80	12/13/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
East Perimeter Wells (ordered from North to South)																												
MW-EPA-3	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW19-80	12/15/2016	4.6	0.43 J	6.7	0.65 J	< 1	14	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.53 J	13	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	0.69 J	0.71 J	< 1	< 2
UAW27-50	12/15/2016	5.8	0.38 J	4.3	0.77 J	< 1	0.48 J	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.38 J	11	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	0.44 J	1.4	< 1	< 2
UAW24-70	12/15/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW17-40	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW14-10	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2

Note: Only detected compounds are included in the table.
Bold Indicates concentrations above the applicable Region 4 Freshwater Chronic Ecological Screening Level (2015)
"J" flag indicates an estimated value detected below the method reporting limit.
NE = Not Established

Table 9
2016 Groundwater Data Screened Against Region 4 Freshwater Chronic Ecological Screening Levels - SVOCs
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Reading, Ohio

		ANALYTES (µg/L)																								
Location	Sample Date	2-CHLOROPHENOL	2-METHYLNAPHTHALENE	ACENAPHTHENE	ACENAPHTHYLENE	ANILINE	ANTHRACENE	BENZALDEHYDE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	BENZO(K)FLUORANTHENE	BIPHENYL (DIPHENYL)	CAPROLACTAM	CARBAZOLE	CHRYSENE	CRESOLS, M & P	DIBENZOFURAN	FLUORANTHENE	FLUORENE	INDENO(1,2,3-C,D)PYRENE	NAPHTHALENE	PENTACHLOROPHENOL	PHENANTHRENE	PHENOL	PYRENE
Region 4 Freshwater Screening Values (Chronic)		**32**	**4.7**	**15**	**13**	**4.1**	**0.02**	**57**	**4.7**	**0.06**	**2.6**	**0.44**	**0.64**	**6.5**	**NE**	**NE**	**4.7**	**53**	**4**	**0.8**	**19**	**0.28**	**21**	**15**	**2.3**	**160**	**4.6**
West Perimeter Wells (ordered North to South)																										
UAW07-20	12/9/2016	< 3.8	< 0.77	< 0.77	< 0.77	2.9 J	< 0.77	< 7.7	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 3.8	< 19	< 3.8	< 0.77	< 7.7	< 3.8	< 0.77	< 0.77	< 0.77	< 0.77	< 150	< 0.77	< 3.8	< 0.77
UAW08-20	12/9/2016	< 10	< 2	< 2	< 2	**180**	< 2	< 20	< 2	< 2	< 2	< 2	< 2	**8 J**	< 50	< 10	< 2	< 20	< 10	< 2	< 2	< 2	< 2	< 400	< 2	< 10	< 2
MW-EPA-1	12/13/2016	9.8	1.6 J	< 1.1	**24 J**	**130 J**	**3.2 J**	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 5.4	< 27	< 5.4	< 1.1	8.3 J	< 5.4	**3.7 J**	< 1.1	< 1.1	11 J	< 220	**9.1 J**	3.8 J	**9.3 J**
UAW05-20	12/9/2016	3	< 0.21	< 0.21	< 0.21	**16**	< 0.21	9.2	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	2.4	< 0.21
UAW06-20	12/9/2016	< 1	< 0.2	0.28	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	0.32	< 0.2	< 0.2	< 40	< 0.2	0.57 J	< 0.2
UAW03-20	12/7/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	4.5 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW04-20	12/7/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	1.7 J	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	< 0.96	< 0.19
UAW02-20	12/7/2016	< 0.93	< 0.19	< 0.19	< 0.19	< 4.6	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.93	< 4.6	< 0.93	< 0.19	< 1.9	< 0.93	< 0.19	< 0.19	< 0.19	< 0.19	< 37	< 0.19	< 0.93	< 0.19
UAW02-40	12/7/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	1.8 J	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW02-40 DUP	12/7/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	2.3 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW25-20	12/6/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	4.3 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW01-30	12/6/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	2.6 J	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW01-80	12/6/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	3.3 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
North Perimeter Wells (ordered from East to West)																										
UAW10-80	12/15/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW10-50	12/14/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW20-60	12/14/2016	< 1.1	< 0.23	< 0.23	< 0.23	< 5.7	< 0.23	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 5.7	< 1.1	< 0.23	< 2.3	< 1.1	< 0.23	< 0.23	< 0.23	< 0.23	< 45	< 0.23	< 1.1	< 0.23
UAW20-60 DUP	12/14/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	< 5.4	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
MW-EPA-2	12/14/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW23-20	12/13/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW12-20	12/9/2016	< 1.1	< 0.22	< 0.22	< 0.22	1.5 J	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	4.8 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW13-20	12/9/2016	< 4	< 0.8	< 0.8	< 0.8	**9.8 J**	< 0.8	< 8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 4	< 20	< 4	< 0.8	< 8	< 4	< 0.8	< 0.8	< 0.8	< 0.8	< 160	< 0.8	< 4	< 0.8
Center Wells (ordered from North to South)																										
UAW22-20	12/14/2016	< 1.1	< 0.23	0.62	< 0.23	< 5.7	**1.1**	< 2.3	2.2	**2.1**	**3.1**	**1.1**	**1.5**	< 1.1	< 5.7	1.7	2.4	< 2.3	0.36 J	**5.9**	0.39	**1.1**	0.23	< 45	**3.2**	0.38 J	4.6
UAW11-10	12/8/2016	< 1.3	< 0.25	< 0.25	< 0.25	< 6.3	< 0.25	< 2.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.3	6.9	< 1.3	< 0.25	< 2.5	< 1.3	< 0.25	< 0.25	< 0.25	< 0.25	< 50	< 0.25	< 1.3	< 0.25
UAW11-40	12/8/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 4.8	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	< 0.96	< 0.19
UAW16-10	12/8/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	2.5	< 0.2
UAW16-10 DUP	12/8/2016	< 0.96	< 0.19	< 0.19	< 0.19	0.81 J	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 4.8	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	1.6	< 0.19
UAW15-50	12/8/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	4.2 J	< 1	< 0.2	< 2	< 1	0.26	< 0.2	< 0.2	< 0.2	8.6 J	< 0.2	< 1	0.23
UAW15-20	12/8/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	5 J	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW18-20	12/14/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	0.45	< 0.19	0.2	< 0.96	< 4.8	< 0.96	0.37	< 1.9	< 0.96	0.59	< 0.19	< 0.19	< 0.19	< 38	0.24	< 0.96	0.49
UAW26-70	12/8/2016	< 1.2	< 0.24	< 0.24	< 0.24	< 6	< 0.24	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 1.2	< 6	< 1.2	< 0.24	< 2.4	< 1.2	< 0.24	< 0.24	< 0.24	< 0.24	< 48	< 0.24	< 1.2	< 0.24
MW-EPA-4	12/8/2016	< 0.93	< 0.19	< 0.19	< 0.19	< 4.6	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.93	< 4.6	< 0.93	< 0.19	< 1.9	< 0.93	< 0.19	< 0.19	< 0.19	< 0.19	< 37	< 0.19	< 0.93	< 0.19
UAW09-20	12/5/2016	< 1.1	< 0.23	< 0.23	< 0.23	< 5.7	< 0.23	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	2.7 J	< 1.1	< 0.23	< 2.3	< 1.1	< 0.23	< 0.23	< 0.23	< 0.23	< 45	< 0.23	< 1.1	< 0.23
UAW09-60	12/2/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	2.2 J	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	< 0.96	< 0.19
UAW21-30	12/13/2016	< 1.1	< 0.23	< 0.23	< 0.23	< 5.7	< 0.23	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 5.7	< 1.1	< 0.23	< 2.3	< 1.1	< 0.23	< 0.23	< 0.23	< 0.23	< 45	< 0.23	< 1.1	< 0.23
UAW21-80	12/13/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
East Perimeter Wells (ordered from North to South)																										
MW-EPA-3	12/14/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW19-80	12/15/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW27-50	12/15/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW24-70	12/15/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	0.22	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	0.26	< 2.1	< 1	0.55	< 0.21	< 0.21	< 0.21	< 42	0.41	< 1	0.45
UAW17-40	12/14/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW14-10	12/14/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21

Note: Only detected compounds are included in the table.
Bold Indicates concentrations above the applicable Region 4 Freshwater Chronic Ecological Screening Level (2015)
"J" flag indicates an estimated value detected below the method reporting limit.
NE = Not Established

Table 10
2016 Groundwater Data Screened Against Region 4 Freshwater Chronic Ecological Screening Levels - Metals
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Reading, Ohio

		ANALYTES (µg/L)																				
Location	Sample Date	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM, TOTAL	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	NICKEL	POTASSIUM	SELENIUM	SODIUM	THALLIUM	TIN	VANADIUM	ZINC
Region 4 Freshwater Screening Values (Chronic)		**87**	**190**	**150**	**220**	**33**	**0.45**	**116000**	**152**	**19**	**16**	**1000**	**7.69**	**82000**	**93**	**94**	**53000**	**5**	**680000**	**6**	**180**	**27**	**216**
West Perimeter Wells (ordered North to South)																							
UAW07-20	12/9/2016	57 J	< 10	< 10	40 J	< 5	< 2	**270000**	3.1 J	< 7	< 25	100	3.8 J	34000	**1100**	2.9 J	6300	< 15	310000	< 10	**300**	< 10	< 50
UAW08-20	12/9/2016	< 200	< 10	30	75 J	< 5	**0.88 J**	**1000000**	23	1.9 J	< 130	56 J	**10**	**120000**	**400**	12 J	14000	< 15	**780000**	< 10	**4500**	< 10	< 50
MW-EPA-1	12/13/2016	< 200 U	18	**340**	**5300**	0.39 J	< 2	**390000**	39	< 7	< 25	**25000**	< 5	**330000**	**200**	58	27000	< 15	**1200000**	< 10	**4200**	**250**	24 J
UAW05-20	12/9/2016	**130 J**	< 10	15	80 J	< 5	< 2	**220000**	**4500**	6.3 J	< 25	**14000**	3.7 J	71000	**430**	**630**	6400	< 15	580000	< 10	**2200**	24	< 50
UAW06-20	12/9/2016	**270**	< 10	3.6 J	76 J	< 5	< 2	**180000**	3 J	< 7	< 25	720	4.1 J	32000	**950**	5.1 J	4300 J	< 15	370000	< 10	**400**	4.7 J	< 50
UAW03-20	12/7/2016	**2100**	< 10	< 10	49 J	< 5	< 2	110000	20	2.2 J	14 J	**4400**	5.5	18000	**450**	57	4300 J	< 15	220000	< 10	**350**	6.8 J	48 J
UAW04-20	12/7/2016	**120 J**	16	7.8 J	42 J	< 5	< 2	69000	**170**	2.3 J	< 25	**2300**	< 5	13000	**160**	**270**	2200 J	< 15	64000	< 10	60 J	< 10	< 50
UAW02-20	12/7/2016	< 200	< 10	< 10	110 J	< 5	< 2	**180000**	11	< 7	< 25	**3100**	2.7 J	36000	**570**	20 J	2200 J	< 15	240000	< 10	85 J	< 10	< 50
UAW02-40	12/7/2016	**240 J**	< 10	3.6 J	200	< 5	< 2	**150000**	22	< 7	11 J	**13000**	4.6 J	33000	**1100**	1.8 J	2300 J	< 15	87000	< 10	2.6 J	< 10	35 J
UAW02-40 DUP	12/7/2016	**99 J**	< 10	< 10	180 J	< 5	< 2	**150000**	18	< 7	6.1 J	**9000**	3.4 J	33000	**1100**	1.7 J	2200 J	< 15	88000	< 10	< 100	< 10	16 J
UAW25-20	12/6/2016	< 200	< 10	12	180 J	0.24 J	< 2	**230000**	120	< 7	< 25	**6600**	< 5	41000	**590**	30 J	7800	< 15	330000	< 10	29 J	< 10	< 50
UAW01-30	12/6/2016	< 200	< 10	4.6 J	110 J	0.22 J	< 2	**120000**	**220**	< 7	< 25	**2400**	< 5	30000	**580**	47	6400	< 15	330000	< 10	3.7 J	< 10	< 50
UAW01-80	12/6/2016	< 200	< 10	3.8 J	**280**	< 5	0.31 J	100000	< 5	< 7	< 25	**8900**	< 5	28000	**420**	< 40	1400 J	< 15	44000	< 10	< 100	< 10	< 50
North Perimeter Wells (ordered from East to West)																							
UAW10-80	12/15/2016	< 200 U	< 10	15	48 J	< 5	< 2	22000	< 5	< 7	< 25	77 J	< 5	1800 J	15	< 40	900 J	< 15	< 5000 U	< 10	< 100	< 10	< 50
UAW10-50	12/14/2016	**200**	< 10	< 10	41 J	< 5	< 2	**160000**	0.67 J	< 7	< 25 U	240	2.4 J	50000	**190**	3.7 J	1800 J	< 15	35000	< 10	< 100	< 10	< 50
UAW20-60	12/14/2016	< 200	< 10	< 10	17 J	< 5	**0.49 J**	**220000**	< 5	< 7	< 25	< 100 U	< 5	74000	61	1.8 J	2000 J	< 15	63000	2.6 J	< 100 U	< 10	< 50
UAW20-60 DUP	12/14/2016	< 200	< 10	< 10	17 J	0.25 J	**0.57 J**	**220000**	< 5 U	< 7	< 25	< 100 U	< 5	73000	61	1.8 J	2000 J	< 15	62000	< 10	< 100 U	< 10	< 50
MW-EPA-2	12/14/2016	**650**	< 10	< 10	150 J	0.3 J	**0.6 J**	**160000**	**220**	3.2 J	9.9 J	**1800**	< 5	47000	**320**	**130**	3000 J	< 15	600000	< 10	20 J	< 10	23 J
UAW23-20	12/13/2016	< 200	< 10	< 10	47 J	< 5	0.32 J	**270000**	54	< 7	< 25	**7200**	< 5	65000	79	45	23000	**30**	97000	< 10	< 100	< 10	< 50
UAW12-20	12/9/2016	< 200	< 10	6.3 J	44 J	< 5	< 2	**590000**	19	< 7	< 25	240	7.1	38000	**2900**	7.7 J	7400	< 15	320000	< 10	**450**	< 10	< 50
UAW13-20	12/9/2016	**140 J**	< 10	15	5.2 J	< 5	0.35 J	**750000**	**570**	< 7	5.3 J	**1800**	**11**	56000	**2700**	27 J	4800 J	< 15	460000	< 10	**1300**	< 10	18 J
Center Wells (ordered from North to South)																							
UAW22-20	12/14/2016	**2800**	5 J	9.8 J	220	0.37 J	**6.8**	**300000**	11	2.1 J	**29**	**17000**	**13**	61000	**4700**	16 J	12000	< 15	**1600000**	< 10	**320**	6.3 J	**490**
UAW11-10	12/8/2016	81 J	< 10	13	140 J	< 5	< 2	**140000**	2.7 J	0.84 J	< 25	**4300**	2.2 J	28000	**2400**	9.1 J	4200 J	< 15	460000	< 10	**520**	< 10	< 50
UAW11-40	12/8/2016	**340**	< 10	3.4 J	26 J	< 5	0.36 J	**190000**	74	3.5 J	6.2 J	**1100**	5.2	45000	**1400**	36 J	4000 J	< 15	220000	< 10	60 J	< 10	18 J
UAW16-10	12/8/2016	**100 J**	< 10	4.2 J	45 J	< 5	< 2	**180000**	3.2 J	0.94 J	< 25	**1400**	3.5 J	33000	**980**	9.7 J	6800	< 15	300000	< 10	**1100**	< 10	22 J
UAW16-10 DUP	12/8/2016	85 J	< 10	< 10	44 J	< 5	< 2	**170000**	2.7 J	0.94 J	3.9 J	**1300**	2.9 J	31000	**910**	8.2 J	6500	< 15	270000	< 10	**860**	< 10	19 J
UAW15-50	12/8/2016	**770**	4.2 J	12	40 J	< 5	**0.93 J**	54000	12	0.87 J	**45**	**2400**	**9.1**	4900 J	**120**	6.3 J	1800 J	< 15	13000	< 10	**290**	< 10	190
UAW15-20	12/8/2016	< 200	< 10	< 10	73 J	< 5	< 2	84000	130	3.2 J	3.9 J	**1100**	2 J	21000	17	58	1900 J	< 15	340000	< 10	59 J	< 10	< 50
UAW18-20	12/14/2016	**2000**	< 10	< 10	38 J	< 5	< 2	39000	6.9	< 7	16 J	**2100**	**9.2**	3400 J	79	7.2 J	1800 J	< 15	34000	< 10	99 J	10	79
UAW26-70	12/8/2016	< 200	< 10	13	**260**	< 5	< 2	**130000**	2 J	< 7	< 25	**3100**	2.5 J	43000	**280**	1.6 J	1600 J	< 15	28000	< 10	< 100	< 10	< 50
MW-EPA-4	12/8/2016	< 200	< 10	7.3 J	91 J	< 5	< 2	100000	**7700**	13	**130**	**16000**	< 5	25000	**250**	**660**	2600 J	< 15	240000	3.3 J	30 J	**41**	< 50
UAW09-20	12/5/2016	< 200	< 10	< 10	57 J	0.21 J	0.44 J	110000	56	< 7	< 25	170	< 5	30000	< 15	15 J	900 J	< 15	40000	< 10	< 100	< 10	< 50
UAW09-60	12/2/2016	< 200	< 10	8 J	190 J	< 5	< 2	100000	1.5 J	< 7	< 25	< 100	2.5 J	36000	93	1.8 J	1100 J	< 15	14000	< 10	< 100	< 10	< 50
UAW21-30	12/13/2016	< 200	< 10	< 10	71 J	< 5	< 2	100000	**300**	6.2 J	< 25 U	**3200**	< 5	27000	63	**220**	2700 J	< 15	39000	2.1 J	< 100	< 10	< 50
UAW21-80	12/13/2016	**160 J**	< 10	85	200	< 5	< 2	**120000**	< 5 U	< 7	< 25	**3700**	< 5	40000	**660**	4.7 J	1200 J	< 15	44000	< 10	< 100	< 10	< 50
East Perimeter Wells (ordered from North to South)																							
MW-EPA-3	12/14/2016	**1400**	< 10	< 10	220	0.28 J	**0.72 J**	**270000**	**220**	18	10 J	**4300**	3.2 J	**93000**	**910**	**290**	2500 J	< 15	84000	< 10	< 100 U	8.8 J	93
UAW19-80	12/15/2016	< 200 U	< 10	< 10	64 J	0.26 J	< 2	**160000**	0.68 J	< 7	< 25	< 100 U	< 5	48000	17	< 40	1700 J	< 15	66000	< 10	< 100	< 10	< 50
UAW27-50	12/15/2016	< 200	< 10	< 10	41 J	0.29 J	< 2	**170000**	3.7 J	< 7	< 25	78 J	< 5	52000	33	4.4 J	1500 J	< 15	40000	< 10	< 100	< 10	< 50
UAW24-70	12/15/2016	< 200	< 10	< 10	180 J	< 5	**0.72 J**	75000	0.75 J	< 7	< 25 U	74 J	< 5	21000	< 15	4.9 J	3200 J	< 15	77000	< 10	22 J	< 10	18 J
UAW17-40	12/14/2016	< 200 U	< 10	32	230	< 5	< 2	93000	< 5	< 7	< 25	**6700**	< 5	28000	**150**	< 40	640 J	< 15	7900	< 10	< 100	< 10	< 50
UAW14-10	12/14/2016	< 200	< 10	6.8 J	80 J	< 5	< 2	97000	6.7	< 7	< 25	**4000**	< 5	28000	35	3.5 J	850 J	< 15	26000	< 10	< 100	< 10	< 50

Note: Only detected compounds are included in the table.
Bold Indicates concentrations above the applicable Region 4 Freshwater Chronic Ecological Screening Level (2015)
"J" flag indicates an estimated value detected below the method reporting limit.
Assumes a hardness of 200 mg/kg $CaCO_3$ based on Mill Creek surface water data.

Table 11
2016 Groundwater Data Screened Against Ohio Water Quality Criteria for the Ohio River Basin - VOCs
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Reading, Ohio

		ANALYTES (µg/L)																											
Location	Sample Date	1,1,1-TRICHLOROETHANE	1,1,2-TRICHLOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHYLENE	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE	ACETONE	BENZENE	CARBON DISULFIDE	CHLORINATED FLUOROCARBON (FREON 113)	CHLOROBENZENE	CHLOROFORM	CIS-1,2-DICHLOROETHYLENE	CYCLOHEXANE	ETHYLBENZENE	ISOPROPYLBENZENE (CUMENE)	METHYLENE CHLORIDE	METHYL ETHYL KETONE (2-BUTANONE)	METHYL ISOBUTYL KETONE	METHYLCYLOHEXANE	TETRACHLOROETHYLENE(PCE)	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRICHLOROETHYLENE	VINYL CHLORIDE	XYLENES, TOTAL
Ohio EPA Nondrinking (Ohio River Basin)		**NE**	**420**	**NE**	**32**	**17000**	**990**	**2600**	**2600**	**NE**	**710**	**NE**	**NE**	**21000**	**4700**	**NE**	**NE**	**29000**	**NE**	**16000**	**NE**	**NE**	**NE**	**89**	**200000**	**140000**	**810**	**5300**	**NE**
Ohio EPA OMZA (Ohio River Basin)		**76**	**740**	**ID**	**210**	**23**	**2000**	**22**	**9.4**	**NE**	**160**	**15**	**NE**	**47**	**140**	**970**	**NE**	**61**	**4.8**	**1900**	**22000**	**ID**	**NE**	**53**	**62**	**970**	**220**	**930**	**27**
Ohio EPA OMZM (Ohio River Basin)		**690**	**3300**	**ID**	**1900**	**130**	**9600**	**79**	**57**	**NE**	**700**	**130**	**NE**	**420**	**1300**	**8800**	**NE**	**550**	**43**	**11000**	**200000**	**ID**	**NE**	**430**	**560**	**8800**	**2000**	**8400**	**240**
West Perimeter Wells (ordered North to South)																													
UAW07-20	12/9/2016	< 5	< 5	< 5	< 5	**170**	< 5	5.3	**38**	< 50	1.4 J	**78**	< 5	**390**	< 5	< 5	< 5	< 5	1.3 J	6.2	< 50	< 50	< 5	< 5	< 5	< 5	< 5	< 5	1.3 J
UAW08-20	12/9/2016	< 17	< 17	< 17	< 17	**490 J**	< 17	9 J	**55 J**	< 170	120 J	**250 J**	< 17	**140 J**	< 17	< 17	< 17	< 17	< 17	19 J	< 170	24 J	45 J	< 17	51 J	< 17	< 17	< 17	**220 J**
MW-EPA-1	12/13/2016	< 200	< 200	< 200	< 200	**300**	< 200	< 200	**330**	38000	< 200	< 200	< 200	**5200**	< 200	< 200	< 200	< 200	< 200	< 200	< 2000	< 2000	< 200	< 200	< 200	< 200	< 200	< 200	< 400
UAW05-20	12/9/2016	< 2	< 2	< 2	< 2	**410**	< 2	16	**110**	16 J	9.5	3.3	< 2	**570**	< 2	< 2	1.2 J	11	0.92 J	2	< 20	5.9 J	4	< 2	4.9	< 2	< 2	< 2	19
UAW06-20	12/9/2016	< 1	< 1	0.47 J	< 1	**39**	< 1	1.5	8.9	< 10	0.6 J	< 1	< 1	**84**	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	0.41 J	< 1	< 1	< 1	< 2
UAW03-20	12/7/2016	< 1	< 1	< 1	< 1	8.1	< 1	< 1	1.8	< 10	0.77 J	< 1	< 1	14	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW04-20	12/7/2016	< 1	< 1	< 1	< 1	< 1.1 U	< 1	< 1	< 1 U	< 10	< 1	< 1	< 1	1.7	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW02-20	12/7/2016	< 1	< 1	< 1	< 1	13	< 1	0.69 J	4.2	< 10	< 1	< 1	< 1	2.2	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW02-40	12/7/2016	< 1	< 1	4.7	2.6	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	21	< 1	< 1	< 1	< 1	< 10	< 10	< 1	0.36 J	< 1	< 1	< 1	6	< 2
UAW02-40 DUP	12/7/2016	< 1	< 1	4.7	2.6	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	20	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	5.8	< 2
UAW25-20	12/6/2016	< 1	< 1	< 1	< 1	1.8	< 1	< 1	0.72 J	< 10	< 1	< 1	< 1	0.39 J	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW01-30	12/6/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW01-80	12/6/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	0.3 J	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	2.9	< 2
North Perimeter Wells (ordered from East to West)																													
UAW10-80	12/15/2016	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW10-50	12/14/2016	1	< 1	1.8	< 1	< 1	0.38 J	< 1	< 1	< 10	< 1	< 1	< 1	< 1	4.4	3.6	< 1	< 1	< 1	< 1	< 10	< 10	< 1	5	< 1	0.29 J	1.2	< 1	< 2
UAW20-60	12/14/2016	7.2	1.7	4.4	1.7	< 1	5	< 1	< 1	< 10	< 1	< 1	3.8	0.7 J	0.79 J	13	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**77**	< 1	0.82 J	5.2	< 1	< 2
UAW20-60 DUP	12/14/2016	7.7	1.8	4.7	2.1	< 1	5.2	< 1	< 1	< 10	< 1	< 1	4.6	0.57 J	0.8 J	14	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**81**	< 1	0.92 J	5.8	< 1	< 2
MW-EPA-2	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.77 J	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	**56**	< 1	< 1	0.41 J	< 1	< 2
UAW23-20	12/13/2016	7.3	0.61 J	5.1	0.49 J	< 1	< 1	< 1	< 1	< 10	< 1	< 1	0.65 J	< 1	4.8	2.7	< 1	< 1	< 1	< 1	< 10	< 10	< 1	10	< 1	0.57 J	1.7	< 1	< 2
UAW12-20	12/9/2016	< 14	< 14	< 14	< 14	**400**	< 14	**37**	**110**	< 140	< 14	**150**	< 14	**340**	< 14	< 14	< 14	< 14	< 14	19	< 140	< 140	< 14	< 14	< 14	< 14	< 14	< 14	< 29
UAW13-20	12/9/2016	< 10	< 10	< 10	< 10	**320**	< 10	< 10	**36**	< 100	7.8 J	**32**	< 10	**64**	< 10	< 10	< 10	19	< 10	16	< 100	< 100	< 10	< 10	9.3 J	< 10	< 10	< 10	**28**
Center Wells (ordered from North to South)																													
UAW22-20	12/14/2016	< 1	< 1	1.5	0.47 J	**27**	0.77 J	0.62 J	3.4	< 10	< 1	< 1	< 1	5.9	< 1	1.1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	0.52 J	< 2
UAW11-10	12/8/2016	< 1	< 1	5.3	0.31 J	6.5	< 1	0.39 J	2.5	< 10	0.45 J	< 1	< 1	3.7	< 1	14	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	0.58 J	0.47 J	< 1	< 1	< 2
UAW11-40	12/8/2016	2.2	< 1	1.9	< 1	< 1	2.4	< 1	< 1	< 10	< 1	< 1	< 1	3.8	0.39 J	2	< 1	< 1	< 1	< 1	< 10	< 10	< 1	11	< 1	< 1	1.9	< 1	< 2
UAW16-10	12/8/2016	< 1	< 1	< 1	< 1	6.9	< 1	< 1	3.3	35	0.29 J	< 1	< 1	3.2	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW16-10 DUP	12/8/2016	< 1	< 1	< 1	< 1	6.6	< 1	< 1	3.2	29	0.28 J	0.42 J	< 1	3.1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW15-50	12/8/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	9 J	< 1	0.44 J	< 1	2.2	< 1	< 1	< 1	< 1	< 1	< 1	1.6 J	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW15-20	12/8/2016	< 1	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	3.4	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW18-20	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	5.1 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	1.3 J	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW26-70	12/8/2016	< 1	< 1	< 1	< 1	1.9	< 1	< 1	< 1 U	< 10	< 1	< 1	< 1	< 1 U	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
MW-EPA-4	12/8/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW09-20	12/5/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	7.3	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW09-60	12/2/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW21-30	12/13/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.67 J	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	7.3	< 1	< 1	< 1	< 1	< 2
UAW21-80	12/13/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
East Perimeter Wells (ordered from North to South)																													
MW-EPA-3	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW19-80	12/15/2016	4.6	0.43 J	6.7	0.65 J	< 1	14	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.53 J	13	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	0.69 J	0.71 J	< 1	< 2
UAW27-50	12/15/2016	5.8	0.38 J	4.3	0.77 J	< 1	0.48 J	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.38 J	11	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	0.44 J	1.4	< 1	< 2
UAW24-70	12/15/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW17-40	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2
UAW14-10	12/14/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 2

Note: Only detected compounds are included in the table.
Bold Indicates concentrations above either the Ohio Aquatic Life Standard (Outside the Mixing Zone Average-OMZA) or the nondrinking human health criteria (1/12/2015).
"J" flag indicates an estimated value detected below the method reporting limit.
NE = Not Established
ID - Insufficient data to develop a criterion.
OMZA - Outside the mixing zone average (30 day average)
OMZM - Outside the mixing zone maximum

Table 12
2016 Groundwater Data Screened Against Ohio Water Quality Criteria for the Ohio River Basin - SVOCs
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Reading, Ohio

		ANALYTES (µg/L)																									
Location	Sample Date	2-CHLOROPHENOL	2-METHYLNAPHTHALENE	ACENAPHTHENE	ACENAPHTHYLENE	ANILINE	ANTHRACENE	BENZALDEHYDE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(G,H,I)PERYLENE	BENZO(K)FLUORANTHENE	BIPHENYL (DIPHENYL)	CAPROLACTAM	CARBAZOLE	CHRYSENE	CRESOLS, M & P	DIBENZOFURAN	FLUORANTHENE	FLUORENE	INDENO(1,2,3-C,D)PYRENE	NAPHTHALENE	PENTACHLOROPHENOL	PHENANTHRENE	PHENOL	PYRENE
Ohio EPA Nondrinking (Ohio River Basin)		**400**	**NE**	**2700**	**NE**	**NE**	**110000**	**NE**	**0.49**	**0.49**	**0.49**	**NE**	**0.49**	**NE**	**NE**	**NE**	**0.49**	**NE**	**NE**	**370**	**14000**	**0.49**	**NE**	**82**	**NE**	**4.6E+06**	**11000**
Ohio EPA OMZA (Ohio River Basin)		**32**	**NE**	**15**	**ID**	**4.1**	**0.02**	**NE**	**ID**	**ID**	**ID**	**ID**	**ID**	**6.5**	**NE**	**NE**	**ID**	**53**	**4**	**0.8**	**19**	**ID**	**21**	**11**	**2.3**	**400**	**4.6**
Ohio EPA OMZM (Ohio River Basin)		**290**	**NE**	**19**	**ID**	**30**	**0.18**	**NE**	**ID**	**ID**	**ID**	**ID**	**ID**	**26**	**NE**	**NE**	**ID**	**480**	**36**	**3.7**	**110**	**ID**	**170**	**14**	**31**	**4700**	**42**
West Perimeter Wells (ordered North to South)																											
UAW07-20	12/9/2016	< 3.8	< 0.77	< 0.77	< 0.77	2.9 J	< 0.77	< 7.7	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 3.8	< 19	< 3.8	< 0.77	< 7.7	< 3.8	< 0.77	< 0.77	< 0.77	< 0.77	< 150	< 0.77	< 3.8	< 0.77
UAW08-20	12/9/2016	< 10	< 2	< 2	< 2	**180**	< 2	< 20	< 2	< 2	< 2	< 2	< 2	**8 J**	< 50	< 10	< 2	< 20	< 10	< 2	< 2	< 2	< 2	< 400	< 2	< 10	< 2
MW-EPA-1	12/13/2016	9.8	1.6 J	< 1.1	24 J	**130 J**	**3.2 J**	< 11	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 5.4	< 27	< 5.4	< 1.1	8.3 J	< 5.4	**3.7 J**	< 1.1	< 1.1	11 J	< 220	**9.1 J**	3.8 J	**9.3 J**
UAW05-20	12/9/2016	3	< 0.21	< 0.21	< 0.21	**16**	< 0.21	9.2	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	2.4	< 0.21
UAW06-20	12/9/2016	< 1	< 0.2	0.28	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	0.32	< 0.2	< 0.2	< 40	< 0.2	0.57 J	< 0.2
UAW03-20	12/7/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	4.5 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW04-20	12/7/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	1.7 J	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	< 0.96	< 0.19
UAW02-20	12/7/2016	< 0.93	< 0.19	< 0.19	< 0.19	< 4.6	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.93	< 4.6	< 0.93	< 0.19	< 1.9	< 0.93	< 0.19	< 0.19	< 0.19	< 0.19	< 37	< 0.19	< 0.93	< 0.19
UAW02-40	12/7/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	1.8 J	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW02-40 DUP	12/7/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	2.3 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW25-20	12/6/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	4.3 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW01-30	12/6/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	2.6 J	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW01-80	12/6/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	3.3 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
North Perimeter Wells (ordered from East to West)																											
UAW10-80	12/15/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW10-50	12/14/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW20-60	12/14/2016	< 1.1	< 0.23	< 0.23	< 0.23	< 5.7	< 0.23	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 5.7	< 1.1	< 0.23	< 2.3	< 1.1	< 0.23	< 0.23	< 0.23	< 0.23	< 45	< 0.23	< 1.1	< 0.23
UAW20-60 DUP	12/14/2016	< 1.1	< 0.22	< 0.22	< 0.22	< 5.4	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	< 5.4	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
MW-EPA-2	12/14/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW23-20	12/13/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW12-20	12/9/2016	< 1.1	< 0.22	< 0.22	< 0.22	1.5 J	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	4.8 J	< 1.1	< 0.22	< 2.2	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 43	< 0.22	< 1.1	< 0.22
UAW13-20	12/9/2016	< 4	< 0.8	< 0.8	< 0.8	**9.8 J**	< 0.8	< 8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 4	< 20	< 4	< 0.8	< 8	< 4	< 0.8	< 0.8	< 0.8	< 0.8	< 160	< 0.8	< 4	< 0.8
Center Wells (ordered from North to South)																											
UAW22-20	12/14/2016	< 1.1	< 0.23	0.62	< 0.23	< 5.7	**1.1**	< 2.3	**2.2**	**2.1**	**3.1**	1.1	**1.5**	< 1.1	< 5.7	1.7	**2.4**	< 2.3	0.36 J	**5.9**	0.39	**1.1**	0.23	< 45	**3.2**	0.38 J	4.6
UAW11-10	12/8/2016	< 1.3	< 0.25	< 0.25	< 0.25	< 6.3	< 0.25	< 2.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 1.3	6.9	< 1.3	< 0.25	< 2.5	< 1.3	< 0.25	< 0.25	< 0.25	< 0.25	< 50	< 0.25	< 1.3	< 0.25
UAW11-40	12/8/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 4.8	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	< 0.96	< 0.19
UAW16-10	12/8/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	2.5	< 0.2
UAW16-10 DUP	12/8/2016	< 0.96	< 0.19	< 0.19	< 0.19	0.81 J	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 4.8	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	1.6	< 0.19
UAW15-50	12/8/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	4.2 J	< 1	< 0.2	< 2	< 1	0.26	< 0.2	< 0.2	< 0.2	8.6 J	< 0.2	< 1	0.23
UAW15-20	12/8/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	5 J	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW18-20	12/14/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	0.45	< 0.19	0.2	< 0.96	< 4.8	< 0.96	0.37	< 1.9	< 0.96	0.59	< 0.19	< 0.19	< 0.19	< 38	0.24	< 0.96	0.49
UAW26-70	12/8/2016	< 1.2	< 0.24	< 0.24	< 0.24	< 6	< 0.24	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 1.2	< 6	< 1.2	< 0.24	< 2.4	< 1.2	< 0.24	< 0.24	< 0.24	< 0.24	< 48	< 0.24	< 1.2	< 0.24
MW-EPA-4	12/8/2016	< 0.93	< 0.19	< 0.19	< 0.19	< 4.6	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.93	< 4.6	< 0.93	< 0.19	< 1.9	< 0.93	< 0.19	< 0.19	< 0.19	< 0.19	< 37	< 0.19	< 0.93	< 0.19
UAW09-20	12/5/2016	< 1.1	< 0.23	< 0.23	< 0.23	< 5.7	< 0.23	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	2.7 J	< 1.1	< 0.23	< 2.3	< 1.1	< 0.23	< 0.23	< 0.23	< 0.23	< 45	< 0.23	< 1.1	< 0.23
UAW09-60	12/2/2016	< 0.96	< 0.19	< 0.19	< 0.19	< 4.8	< 0.19	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	2.2 J	< 0.96	< 0.19	< 1.9	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 38	< 0.19	< 0.96	< 0.19
UAW21-30	12/13/2016	< 1.1	< 0.23	< 0.23	< 0.23	< 5.7	< 0.23	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 5.7	< 1.1	< 0.23	< 2.3	< 1.1	< 0.23	< 0.23	< 0.23	< 0.23	< 45	< 0.23	< 1.1	< 0.23
UAW21-80	12/13/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
East Perimeter Wells (ordered from North to South)																											
MW-EPA-3	12/14/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW19-80	12/15/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW27-50	12/15/2016	< 1	< 0.2	< 0.2	< 0.2	< 5	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 5	< 1	< 0.2	< 2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 40	< 0.2	< 1	< 0.2
UAW24-70	12/15/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	0.22	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	0.26	< 2.1	< 1	0.55	< 0.21	< 0.21	< 0.21	< 42	0.41	< 1	0.45
UAW17-40	12/14/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21
UAW14-10	12/14/2016	< 1	< 0.21	< 0.21	< 0.21	< 5.2	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 5.2	< 1	< 0.21	< 2.1	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 42	< 0.21	< 1	< 0.21

Note: Only detected compounds are included in the table.
Bold Indicates concentrations above either the Ohio Aquatic Life Standard (Outside the Mixing Zone Average-OMZA) or the nondrinking human health criteria (1/12/2015).
"J" flag indicates an estimated value detected below the method reporting limit.
NE = Not Established
ID - Insufficient data to develop a criterion.
OMZA - Outside the mixing zone average (30 day average)
OMZM - Outside the mixing zone maximum

Table 13
2016 Groundwater Data Screened Against Ohio Water Quality Criteria for the Ohio River Basin - Metals
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Reading, Ohio

		ANALYTES (µg/L)																				
Location	Sample Date	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM, TOTAL	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	NICKEL	POTASSIUM	SELENIUM	SODIUM	THALLIUM	TIN	VANADIUM	ZINC
Ohio EPA Nondrinking (Ohio River Basin)		**NE**	**4300**	**NE**	**NE**	**280**	**NE**	**NE**	**NE**	**NE**	**1300**	**NE**	**ID**	**NE**	**NE**	**4600**	**NE**	**11000**	**NE**	**NE**	**NE**	**NE**	**69000**
Ohio EPA OMZA (Ohio River Basin)		**NE**	**190**	**150**	**220**	**33**	**4.2**	**NE**	**150**	**24**	**17**	**NE**	**16**	**NE**	**NE**	**94**	**NE**	**5**	**NE**	**17**	**180**	**44**	**220**
Ohio EPA OMZM (Ohio River Basin)		**NE**	**900**	**340**	**2000**	**280**	**9.9**	**NE**	**3200**	**220**	**27**	**NE**	**300**	**NE**	**NE**	**840**	**NE**	**NE**	**NE**	**79**	**1600**	**150**	**220**
West Perimeter Wells (ordered North to South)																							
UAW07-20	12/9/2016	57 J	< 10	< 10	40 J	< 5	< 2	270000	3.1 J	< 7	< 25	100	3.8 J	34000	1100	2.9 J	6300	< 15	310000	< 10	**300**	< 10	< 50
UAW08-20	12/9/2016	< 200	< 10	30	75 J	< 5	0.88 J	1000000	23	1.9 J	< 130	56 J	10	120000	400	12 J	14000	< 15	780000	< 10	**4500**	< 10	< 50
MW-EPA-1	12/13/2016	< 200 U	18	**340**	**5300**	0.39 J	< 2	390000	39	< 7	< 25	25000	< 5	330000	200	58	27000	< 15	1200000	< 10	**4200**	**250**	24 J
UAW05-20	12/9/2016	130 J	< 10	15	80 J	< 5	< 2	220000	**4500**	6.3 J	< 25	14000	3.7 J	71000	430	**630**	6400	< 15	580000	< 10	**2200**	24	< 50
UAW06-20	12/9/2016	270	< 10	3.6 J	76 J	< 5	< 2	180000	3 J	< 7	< 25	720	4.1 J	32000	950	5.1 J	4300 J	< 15	370000	< 10	**400**	4.7 J	< 50
UAW03-20	12/7/2016	2100	< 10	< 10	49 J	< 5	< 2	110000	20	2.2 J	14 J	4400	5.5	18000	450	57	4300 J	< 15	220000	< 10	**350**	6.8 J	48 J
UAW04-20	12/7/2016	120 J	16	7.8 J	42 J	< 5	< 2	69000	**170**	2.3 J	< 25	2300	< 5	13000	160	**270**	2200 J	< 15	64000	< 10	60 J	< 10	< 50
UAW02-20	12/7/2016	< 200	< 10	< 10	110 J	< 5	< 2	180000	11	< 7	< 25	3100	2.7 J	36000	570	20 J	2200 J	< 15	240000	< 10	85 J	< 10	< 50
UAW02-40	12/7/2016	240 J	< 10	3.6 J	200	< 5	< 2	150000	22	< 7	11 J	13000	4.6 J	33000	1100	1.8 J	2300 J	< 15	87000	< 10	2.6 J	< 10	35 J
UAW02-40 DUP	12/7/2016	99 J	< 10	< 10	180 J	< 5	< 2	150000	18	< 7	6.1 J	9000	3.4 J	33000	1100	1.7 J	2200 J	< 15	88000	< 10	< 100	< 10	16 J
UAW25-20	12/6/2016	< 200	< 10	12	180 J	0.24 J	< 2	230000	120	< 7	< 25	6600	< 5	41000	590	30 J	7800	< 15	330000	< 10	29 J	< 10	< 50
UAW01-30	12/6/2016	< 200	< 10	4.6 J	110 J	0.22 J	< 2	120000	**220**	< 7	< 25	2400	< 5	30000	580	47	6400	< 15	330000	< 10	3.7 J	< 10	< 50
UAW01-80	12/6/2016	< 200	< 10	3.8 J	**280**	< 5	0.31 J	100000	< 5	< 7	< 25	8900	< 5	28000	420	< 40	1400 J	< 15	44000	< 10	< 100	< 10	< 50
North Perimeter Wells (ordered from East to West)																							
UAW10-80	12/15/2016	< 200 U	< 10	15	48 J	< 5	< 2	22000	< 5	< 7	< 25	77 J	< 5	1800 J	15	< 40	900 J	< 15	< 5000 U	< 10	< 100	< 10	< 50
UAW10-50	12/14/2016	200	< 10	< 10	41 J	< 5	< 2	160000	0.67 J	< 7	< 25 U	240	2.4 J	50000	190	3.7 J	1800 J	< 15	35000	< 10	< 100	< 10	< 50
UAW20-60	12/14/2016	< 200	< 10	< 10	17 J	< 5	0.49 J	220000	< 5	< 7	< 25	< 100 U	< 5	74000	61	1.8 J	2000 J	< 15	63000	2.6 J	< 100 U	< 10	< 50
UAW20-60 DUP	12/14/2016	< 200	< 10	< 10	17 J	0.25 J	0.57 J	220000	< 5 U	< 7	< 25	< 100 U	< 5	73000	61	1.8 J	2000 J	< 15	62000	< 10	< 100 U	< 10	< 50
MW-EPA-2	12/14/2016	650	< 10	< 10	150 J	0.3 J	0.6 J	160000	**220**	3.2 J	9.9 J	1800	< 5	47000	320	**130**	3000 J	< 15	600000	< 10	20 J	< 10	23 J
UAW23-20	12/13/2016	< 200	< 10	< 10	47 J	< 5	0.32 J	270000	54	< 7	< 25	7200	< 5	65000	79	45	23000	**30**	97000	< 10	< 100	< 10	< 50
UAW12-20	12/9/2016	< 200	< 10	6.3 J	44 J	< 5	< 2	590000	19	< 7	< 25	240	7.1	38000	2900	7.7 J	7400	< 15	320000	< 10	**450**	< 10	< 50
UAW13-20	12/9/2016	140 J	< 10	15	5.2 J	< 5	0.35 J	750000	**570**	< 7	5.3 J	1800	11	56000	2700	27 J	4800 J	< 15	460000	< 10	**1300**	< 10	18 J
Center Wells (ordered from North to South)																							
UAW22-20	12/14/2016	2800	5 J	9.8 J	220	0.37 J	**6.8**	300000	11	2.1 J	**29**	17000	13	61000	4700	16 J	12000	< 15	1600000	< 10	**320**	6.3 J	**490**
UAW11-10	12/8/2016	81 J	< 10	13	140 J	< 5	< 2	140000	2.7 J	0.84 J	< 25	4300	2.2 J	28000	2400	9.1 J	4200 J	< 15	460000	< 10	**520**	< 10	< 50
UAW11-40	12/8/2016	340	< 10	3.4 J	26 J	< 5	0.36 J	190000	74	3.5 J	6.2 J	1100	5.2	45000	1400	36 J	4000 J	< 15	220000	< 10	60 J	< 10	18 J
UAW16-10	12/8/2016	100 J	< 10	4.2 J	45 J	< 5	< 2	180000	3.2 J	0.94 J	< 25	1400	3.5 J	33000	980	9.7 J	6800	< 15	300000	< 10	**1100**	< 10	22 J
UAW16-10 DUP	12/8/2016	85 J	< 10	< 10	44 J	< 5	< 2	170000	2.7 J	0.94 J	3.9 J	1300	2.9 J	31000	910	8.2 J	6500	< 15	270000	< 10	**860**	< 10	19 J
UAW15-50	12/8/2016	770	4.2 J	12	40 J	< 5	0.93 J	54000	12	0.87 J	**45**	2400	9.1	4900 J	120	6.3 J	1800 J	< 15	13000	< 10	**290**	< 10	190
UAW15-20	12/8/2016	< 200	< 10	< 10	73 J	< 5	< 2	84000	130	3.2 J	3.9 J	1100	2 J	21000	17	58	1900 J	< 15	340000	< 10	59 J	< 10	< 50
UAW18-20	12/14/2016	2000	< 10	< 10	38 J	< 5	< 2	39000	6.9	< 7	16 J	2100	9.2	3400 J	79	7.2 J	1800 J	< 15	34000	< 10	99 J	10	79
UAW26-70	12/8/2016	< 200	< 10	13	**260**	< 5	< 2	130000	2 J	< 7	< 25	3100	2.5 J	43000	280	1.6 J	1600 J	< 15	28000	< 10	< 100	< 10	< 50
MW-EPA-4	12/8/2016	< 200	< 10	7.3 J	91 J	< 5	< 2	100000	**7700**	13	**130**	16000	< 5	25000	250	**660**	2600 J	< 15	240000	3.3 J	30 J	41	< 50
UAW09-20	12/5/2016	< 200	< 10	< 10	57 J	0.21 J	0.44 J	110000	56	< 7	< 25	170	< 5	30000	< 15	15 J	900 J	< 15	40000	< 10	< 100	< 10	< 50
UAW09-60	12/2/2016	< 200	< 10	8 J	190 J	< 5	< 2	100000	1.5 J	< 7	< 25	< 100	2.5 J	36000	93	1.8 J	1100 J	< 15	14000	< 10	< 100	< 10	< 50
UAW21-30	12/13/2016	< 200	< 10	< 10	71 J	< 5	< 2	100000	**300**	6.2 J	< 25 U	3200	< 5	27000	63	**220**	2700 J	< 15	39000	2.1 J	< 100	< 10	< 50
UAW21-80	12/13/2016	160 J	< 10	85	200	< 5	< 2	120000	< 5 U	< 7	< 25	3700	< 5	40000	660	4.7 J	1200 J	< 15	44000	< 10	< 100	< 10	< 50
East Perimeter Wells (ordered from North to South)																							
MW-EPA-3	12/14/2016	1400	< 10	< 10	220	0.28 J	0.72 J	270000	**220**	18	10 J	4300	3.2 J	93000	910	**290**	2500 J	< 15	84000	< 10	< 100 U	8.8 J	93
UAW19-80	12/15/2016	< 200 U	< 10	< 10	64 J	0.26 J	< 2	160000	0.68 J	< 7	< 25	< 100 U	< 5	48000	17	< 40	1700 J	< 15	66000	< 10	< 100	< 10	< 50
UAW27-50	12/15/2016	< 200	< 10	< 10	41 J	0.29 J	< 2	170000	3.7 J	< 7	< 25	78 J	< 5	52000	33	4.4 J	1500 J	< 15	40000	< 10	< 100	< 10	< 50
UAW24-70	12/15/2016	< 200	< 10	< 10	180 J	< 5	0.72 J	75000	0.75 J	< 7	< 25 U	74 J	< 5	21000	< 15	4.9 J	3200 J	< 15	77000	< 10	22 J	< 10	18 J
UAW17-40	12/14/2016	< 200 U	< 10	32	230	< 5	< 2	93000	< 5	< 7	< 25	6700	< 5	28000	150	< 40	640 J	< 15	7900	< 10	< 100	< 10	< 50
UAW14-10	12/14/2016	< 200	< 10	6.8 J	80 J	< 5	< 2	97000	6.7	< 7	< 25	4000	< 5	28000	35	3.5 J	850 J	< 15	26000	< 10	< 100	< 10	< 50

Note: Only detected compounds are included in the table.
Bold Indicates concentrations above either the Ohio Aquatic Life Standard (Outside the Mixing Zone Average-OMZA) or the nondrinking human health criteria (1/12/2015).
"J" flag indicates an estimated value detected below the method reporting limit.
Assumes a hardness of 200 mg/kg $CaCO_3$ and a pH of 7.5 based on Mill Creek surface water data.
NE - Not established
OMZA - Outside the mixing zone average (30 day average)
OMZM - Outside the mixing zone maximum

Figures

OHIO

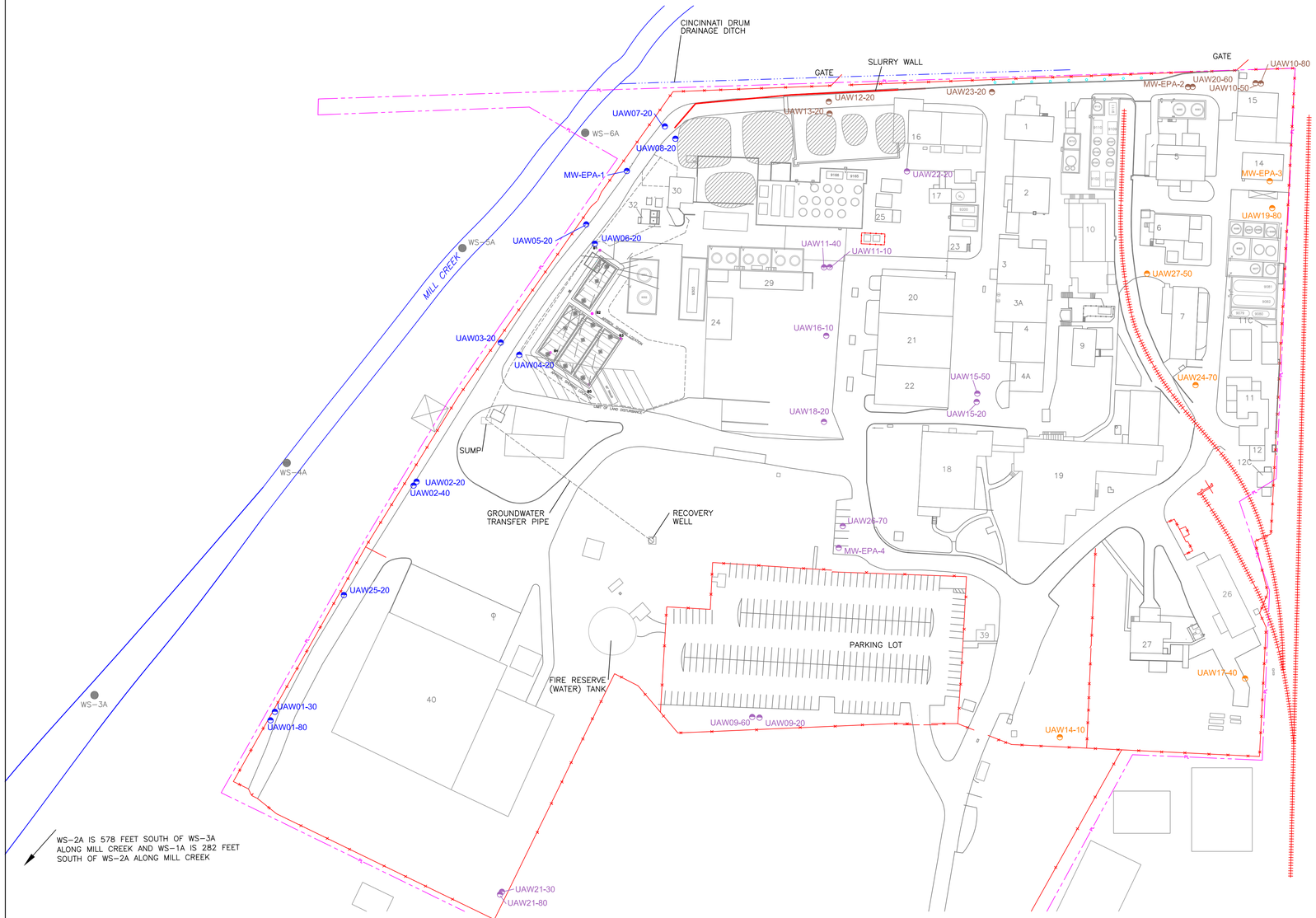
CINCINNATI EAST, OHIO QUADRANGLE
LATITUDE: 39° 14' 03" N
LONGITUDE: 84° 26' 16" W

445226.01000
P:\445-\445226_ROH_Cincinnati\CAD\ROH445226_SLM_032910.dwg

ROHM AND HAAS CHEMICALS LLC
FORMER CINCINNATI PLANT

FIGURE 1
SITE
LOCATION
MAP

PARSONS
2443 CROWNE POINT DRIVE, CINCINNATI, OHIO 45241



0 80 160

APPROXIMATE SCALE (FEET)

N

EXPLANATION

UAW07-20 UPPER AQUIFER MONITORING WELL LOCATION

RECOVERY WELL LOCATION

WS-3A SURFACE WATER SAMPLE LOCATION

PROPERTY BOUNDARY

FRENCH DRAIN

FORMER IMPOUNDMENT – (FROM 1960 AERIAL PHOTO)

Base Map Source: Abercrombie & Associates, Inc., May 2001
Pre-2006 Data Source: Geomatrix, March 2006

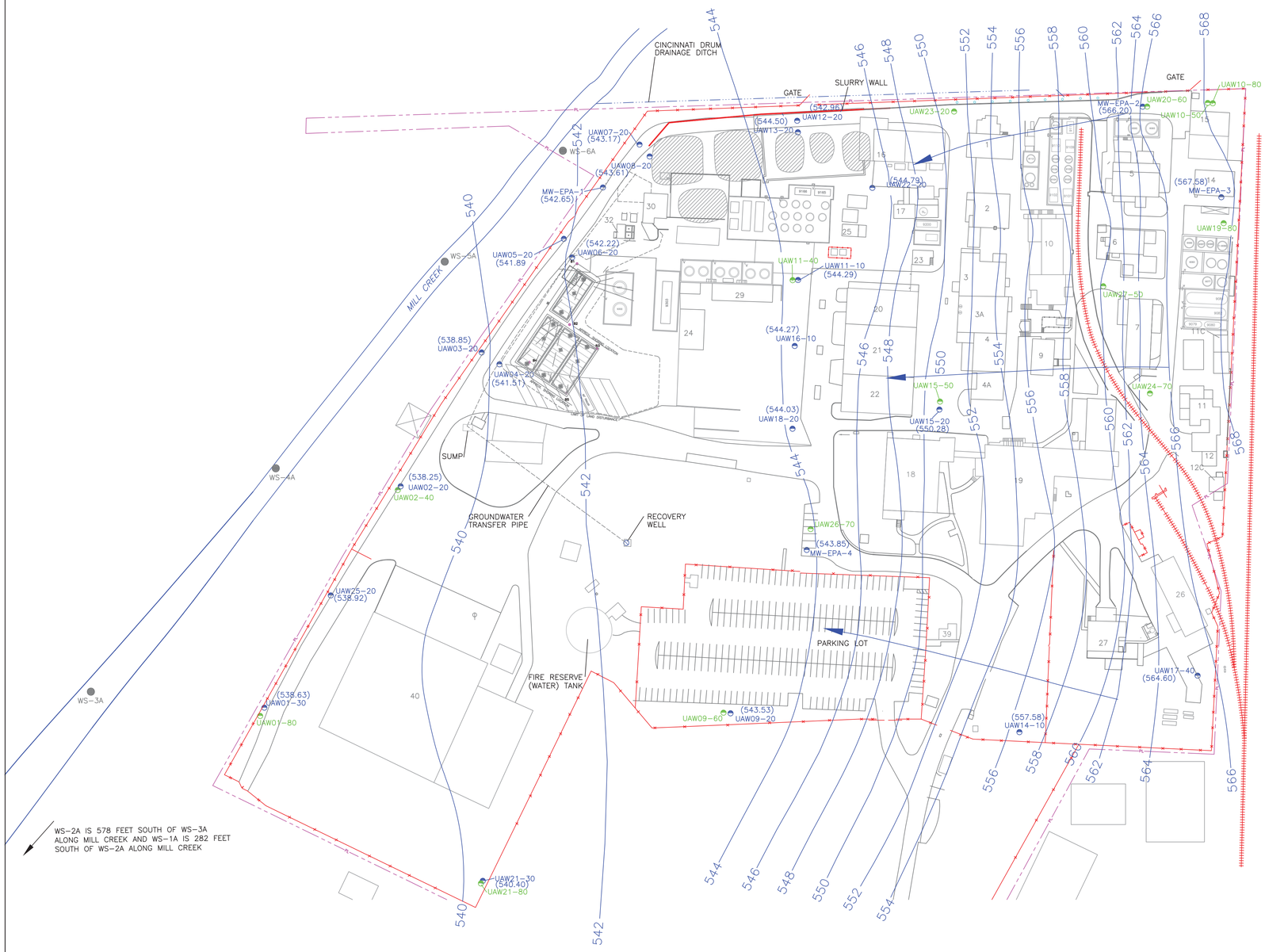
ROHM AND HAAS CHEMICALS LLC
FORMER CINCINNATI, OHIO PLANT

FIGURE 2

SITE MAP

PARSONS
PARSONS
2443 CROWNE POINT DRIVE, CINCINNATI, OHIO 45241

450224.01000
P:\Dow_Projects\Cincinnati\2016\CAD\DOW_450224_SET_012017.dwg



0 80 160

APPROXIMATE SCALE (FEET)

N

EXPLANATION

- UAW11-10 — SHALLOW UPPER AQUIFER MONITORING WELL LOCATION
- UAW11-40 — DEEP UPPER AQUIFER MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- WS-3A — SURFACE WATER SAMPLE LOCATION
- PROPERTY BOUNDARY
- FRENCH DRAIN
- FORMER IMPOUNDMENT – (FROM 1960 AERIAL PHOTO)
- POTENTIOMETRIC CONTOUR INTERVAL (2 FEET)
- GROUNDWATER FLOW DIRECTION

HYDRAULIC GRADIENT CALCULATIONS

MW-EPA-2 — MW-EPA-1 = $\frac{566.20 \text{ ft} - 542.65 \text{ ft}}{773.0 \text{ ft}}$ = 0.03 ft/ft

MW-EPA-2 — UAW22-20 = $\frac{566.20 \text{ ft} - 544.79 \text{ ft}}{401.0 \text{ ft}}$ = 0.05 ft/ft

UAW22-20 — MW-EPA-1 = $\frac{544.79 \text{ ft} - 542.65 \text{ ft}}{388.0 \text{ ft}}$ = 0.006 ft/ft

Base Map Source: Rohm and Haas, 2008
Pre-2006 Data Source: Geomatrix, March 2006

ROHM AND HAAS CHEMICALS LLC
FORMER CINCINNATI, OHIO PLANT

FIGURE 3a

GROUNDWATER POTENTIOMETRIC SURFACE MAP – SHALLOW UPPER AQUIFER (1 DECEMBER 2016)

PARSONS

PARSONS
2443 CROWNE POINT DRIVE, CINCINNATI, OHIO 45241

447576.01000
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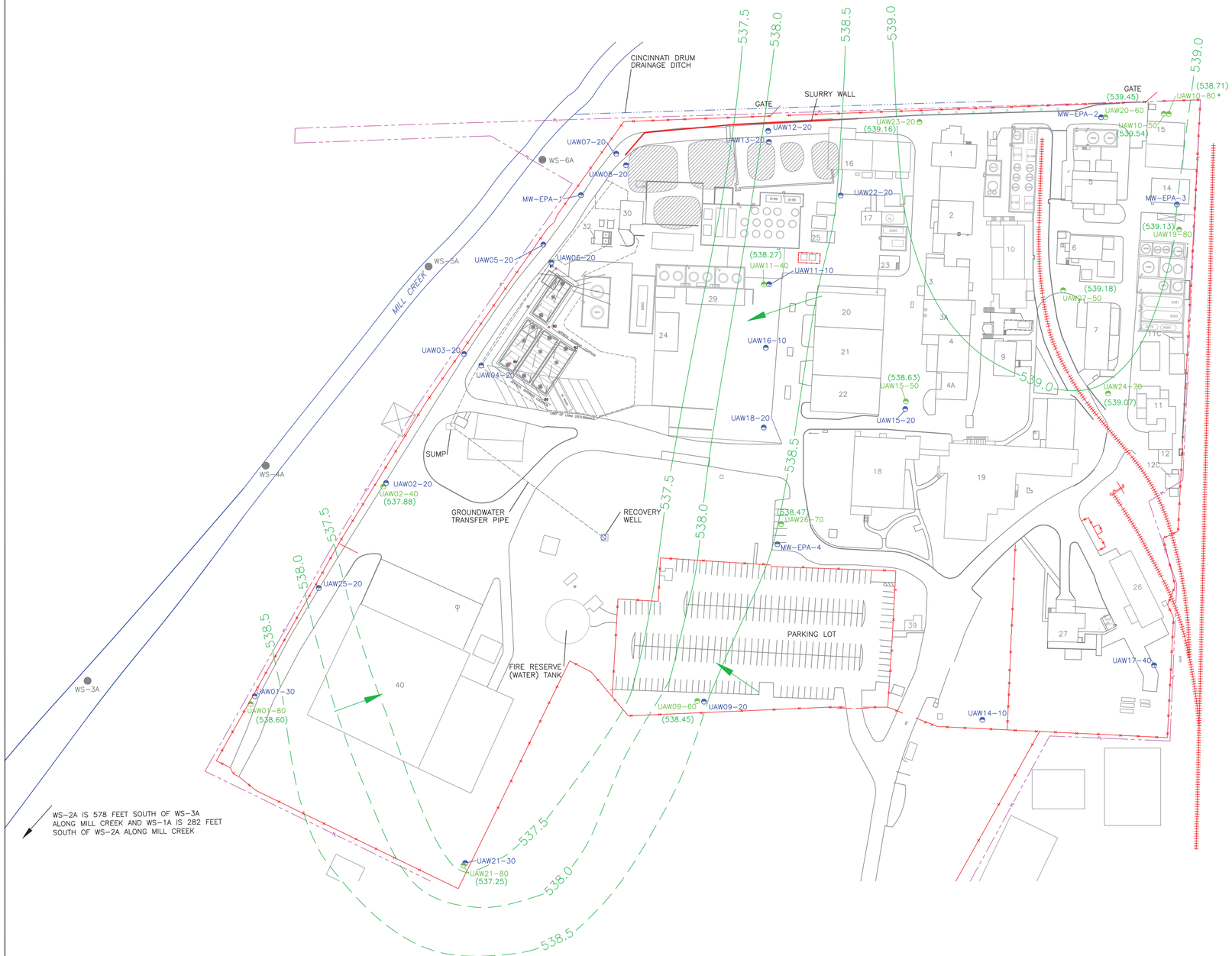

0 80 160

APPROXIMATE SCALE (FEET)

N

EXPLANATION

- UAW11-10 — SHALLOW UPPER AQUIFER MONITORING WELL LOCATION
- UAW11-40 — DEEP UPPER AQUIFER MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- WS-3A — SURFACE WATER SAMPLE LOCATION
- PROPERTY BOUNDARY
- FRENCH DRAIN
- FORMER IMPOUNDMENT – (FROM 1960 AERIAL PHOTO)
- POTENTIOMETRIC CONTOUR INTERVAL (0.5 FEET) (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

* MONITORING WELL UAW10-80 WAS NOT INCLUDED IN THE DEVELOPMENT OF THE POTENTIOMETRIC CONTOURS.

Base Map Source: Rohm and Haas, 2008
Pre-2006 Data Source: Geomatrix, March 2006

ROHM AND HAAS CHEMICALS LLC
FORMER CINCINNATI, OHIO PLANT

FIGURE 3b

GROUNDWATER POTENTIOMETRIC SURFACE MAP – DEEP UPPER AQUIFER (1 DECEMBER 2016)

PARSONS

PARSONS
2443 CROWNE POINT DRIVE, CINCINNATI, OHIO 45241

447576.01000
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UAW05-20

	MCL/RSL	11/17/09	11/18/10	12/12/12	12/12/12 (Dup)	12/9/16
1,2-Dichlorobenzene	600	570	420	**650**	**670**	410
1,4-Dichlorobenzene	75	**220**	**130**	**160**	**160**	**110**
Acetone	14,000	<200	96 U	**22,000**	**23,000**	16 J
Benzene	5	**11 J**	**9.8 J**	**17 J**	**17 J**	**9.5**
Chlorobenzene	100	**1,500**	**570**	**680**	**700**	**570**
Methylene Chloride	5	<20	<18	**7.5 J**	**26**	2
Aniline	13	<100	**41 J**	**75 J**	**110 J**	**16**
Naphthalene	0.17	<100	<100	<0.5	**3.4 J**	<0.21

UAW08-20

	MCL/RSL	11/16/09	11/19/10	11/27/12	12/9/16
Benzene	5	**97**	**90**	**130**	**120 J**
Chlorobenzene	100	87	82	**120**	**140 J**
Methylene Chloride	5	<5	<10	<1	**19 J**
Aniline	13	**1,900**	**740**	<24	**180**
Biphenyl	0.83	<500	<400	<4.8	**8 J**

UAW07-20

	MCL/RSL	11/16/09	11/19/10	11/27/12	12/9/16
Chlorobenzene	100	**500**	**520**	**370**	**390**
Methylene Chloride	5	<6.7	<17	<1	**6.2**
Aniline	13	<40	<200	**510**	2.9 J
Butyl Benzyl Phthalate	16	<40	<200	**31**	<3.8
Naphthalene	0.17	<40	<200	**6.7**	<0.77

UAW13-20

	MCL/RSL	11/19/09	11/29/10	12/4/12	12/9/16
Benzene	5	**11**	**14**	**17**	**7.8 J**
Methylene Chloride	5	<4	<10	<2	**16**
Aniline	13	<100	**130 J**	**27**	9.8 J
Naphthalene	0.17	<100	<200	**2.5**	<0.8

UAW11-40

	MCL/RSL	11/18/09	11/29/10	11/29/10 (Dup)	12/4/12	12/8/16
1,1-Dichloroethane	2.8	**3.3**	**3.3**	**3.3**	**2.1**	1.9
Tetrachloroethene	5	**17**	**15**	**15**	**10**	**11**

UAW22-20

	MCL/RSL	11/11/09	11/15/10	11/15/10 (Dup)	12/7/12	12/14/16
1,1-Dichloroethane	2.8	**3.7**	**5.9**	**5.8**	**5.6**	1.5
Benzo(A)Anthracene	0.012	<10	<10	<10	<0.19	**2.2**
Benzo(A)Pyrene	0.2	<10	<10	<10	<0.19	**2.1**
Benzo(B)Fluoranthene	0.034	<10	<10	<10	<0.19	**3.1**
Benzo(K)Fluoranthene	0.34	<10	<10	<10	<0.19	**1.5**
Indeno(123-cd)Pyrene	0.034	<10	<10	<10	<0.19	**1.1**
Naphthalene	0.17	<10	<10	<10	<0.19	**0.23**

UAW23-20

	MCL/RSL	11/24/09	11/17/10	12/10/12	12/13/16
1,1-Dichloroethane	2.8	**4.6**	**3.9**	**4.2**	**5.1**
Tetrachloroethene	5	**26**	**19**	**17**	**10**

UAW06-20

	MCL/RSL	11/17/09	11/18/10	12/12/12	12/9/16
Hexachlorobenzene	1	<20	<50	**1.1**	1.0

UAW12-20

	MCL/RSL	11/19/09	11/29/10	12/4/12	12/9/16
1,4-Dichlorobenzene	75	**190**	**180**	**130**	**110**
Chlorobenzene	100	**380**	**590**	**360**	**340**
Methylene Chloride	5	<18	<20	<1.7	**19**

UAW11-10

	MCL/RSL	11/18/09	11/29/10	12/4/12	12/8/16
1,1-Dichloroethane	2.8	0.7 J	**5.1**	**4.8**	**5.3**
Aniline	13	13	**17**	**72**	<6.3

UAW20-60

	MCL/RSL	11/23/09	11/18/10	12/10/12	12/14/16	12/14/16 (Dup)
1,1,2-Trichloroethane	5	**9.5 J**	**8.4 J**	3.1	1.7	1.8
1,1-Dichloroethane	2.8	<29	**6.5 J**	**16**	**4.4**	**4.7**
1,2-Dichloroethane	5	**970**	**900**	2.3	5	**5.2**
Benzene	5	**16 J**	<25	0.45 J	<1	<1
Tetrachloroethene	5	**130**	**86**	**66 J**	**77**	**81**
Trichloroethene	5	**8 J**	**9.4 J**	**11**	**5.2**	**5.8**
Vinyl chloride	2	<29	<25	**2.1**	<1	<1

MW-EPA-1

	MCL/RSL	11/20/09	11/19/10	12/12/12	12/13/16
1,4-Dichlorobenzene	75	**430**	**270**	**320**	**330**
Chlorobenzene	100	**7,400**	**5,400**	**5,400**	**5,200**
Benzene	5	<250	<200	**19**	<200
Acetone	14,000	<2,500	<2,000	<170	**38,000**
Aniline	13	**31 J**	<200	**46**	**130 J**
Naphthalene	0.17	<100	**5.0 J**	<0.21	**11 J**

MW-EPA-2

	MCL/RSL	11/23/09	11/18/10	12/10/12	12/14/16
Tetrachloroethene	5	**68**	**65**	**58**	**56**

UAW03-20

	MCL/RSL	11/16/09	11/18/10	11/30/12	12/7/16
Chlorobenzene	100	**110**	81	50	14

UAW10-50

	MCL/RSL	11/20/09	11/20/09 (Dup)	11/18/10	12/10/12 (Dup)	12/14/16
1,1-Dichloroethane	2.8	**5.3**	**5.2**	**3.9**	**4**	1.8

UAW10-80

	11/20/09	11/18/10	12/10/12	12/15/16
	ALL <MCL/RSL			

UAW04-20

	11/16/09	11/16/10	11/30/12	12/7/16
	ALL <MCL/RSL			

MW-EPA-3

	11/23/09	11/23/10	12/7/12	12/14/16
	ALL <MCL/RSL			

UAW19-80

	MCL/RSL	11/23/09	11/23/10	12/7/12	12/15/16
1,1-Dichloroethane	2.8	**11**	**11**	**9.7**	**6.7**
1,2-Dichloroethane	5	**57**	**63**	**67**	**14**
Benzo(A)Anthracene	0.012	<10	**0.71 J**	<0.19	<0.21
Benzo(A)Pyrene	0.2	<10	**0.48 J**	<0.19	<0.21
Benzo(B)Fluoranthene	0.034	<10	**0.64 J**	<0.19	<0.21
Benzo(K)Fluoranthene	0.34	<10	**0.32 J**	<0.19	<0.21

UAW02-20

	11/12/09	11/12/10	12/5/12	12/7/16
	ALL <MCL/RSL			

UAW27-50

	MCL/RSL	11/11/09	11/22/10	12/14/12	12/15/16
1,1-Dichloroethane	2.8	**12**	**11**	**8.4**	**4.3**

UAW02-40

	MCL/RSL	11/12/09	11/12/09 (Dup)	11/12/10	12/5/12	12/5/12 (Dup)	12/7/16	12/7/16 (Dup)
Vinyl Chloride	2	0.44 J	0.49 J	0.56 J	1.4	1.3	**6**	**5.8**
1,1-Dichloroethane	2.8	**12**	**12**	**12**	**4.8**	**4.6**	**4.7**	**4.7**

UAW01-30

	11/12/09	11/16/10	11/29/12	12/6/16
	ALL <MCL/RSL			

UAW01-80

	MCL/RSL	11/12/09	11/16/10	11/29/12	12/6/16
Vinyl chloride	2	**6.8**	**6.1**	**5.7**	**2.9**

UAW24-70

	<MCL/RSL	11/24/09	11/22/10	12/13/12	12/15/16
Benzo(B)Anthracene	0.012	<10	<10	<0.19	**0.22**

UAW16-10

	<MCL/RSL	11/20/09	11/17/10	11/30/12	11/30/12 (Dup)	12/8/16	12/8/16 (Dup)
Aniline	13	<10	**15**	5.6	5.8	<5	0.81 J

UAW15-50

	<MCL/RSL	11/11/09	11/23/10	11/23/10 (Dup)	12/5/12	12/8/16
Pentachlorophenol	1.0	<10	<10	<10	<4.8	**8.6 J**

UAW15-20

	11/11/09	11/23/10	12/5/12	12/8/16
	ALL <MCL/RSL			

UAW18-20

	MCL/RSL	11/24/09	12/17/10	12/7/12	12/14/16
Benzo(B)Fluoranthene	0.034	<10	<10	**0.34**	**0.45**
Indeno(123-cd)Pyrene	0.034	<10	<10	**0.34**	<0.19
Nitrobenzene	0.14	<10	**0.54 J**	<0.97	<0.96

UAW21-30

	MCL/RSL	11/13/09	11/15/10	12/14/12	12/13/16
Tetrachloroethene	5	**9.8**	1.9	**9.6**	**7.3**
bis(2-Ethylhexyl) phthalate	6	<10	<10	**47**	<2.3

UAW09-60

	11/18/09	11/22/10	12/13/12	12/2/16
	ALL <MCL/RSL			

UAW26-70

	11/19/09	11/17/10	12/3/12	12/8/16
	ALL <MCL/RSL			

MW-EPA-4

	11/19/09	11/17/10	12/3/12	12/8/16
	ALL <MCL/RSL			

UAW25-20

	11/12/09	11/12/10	11/29/12	12/6/16
	ALL <MCL/RSL			

UAW21-80

	11/13/09	11/15/10	12/14/12	12/13/16
	ALL <MCL/RSL			

UAW09-20

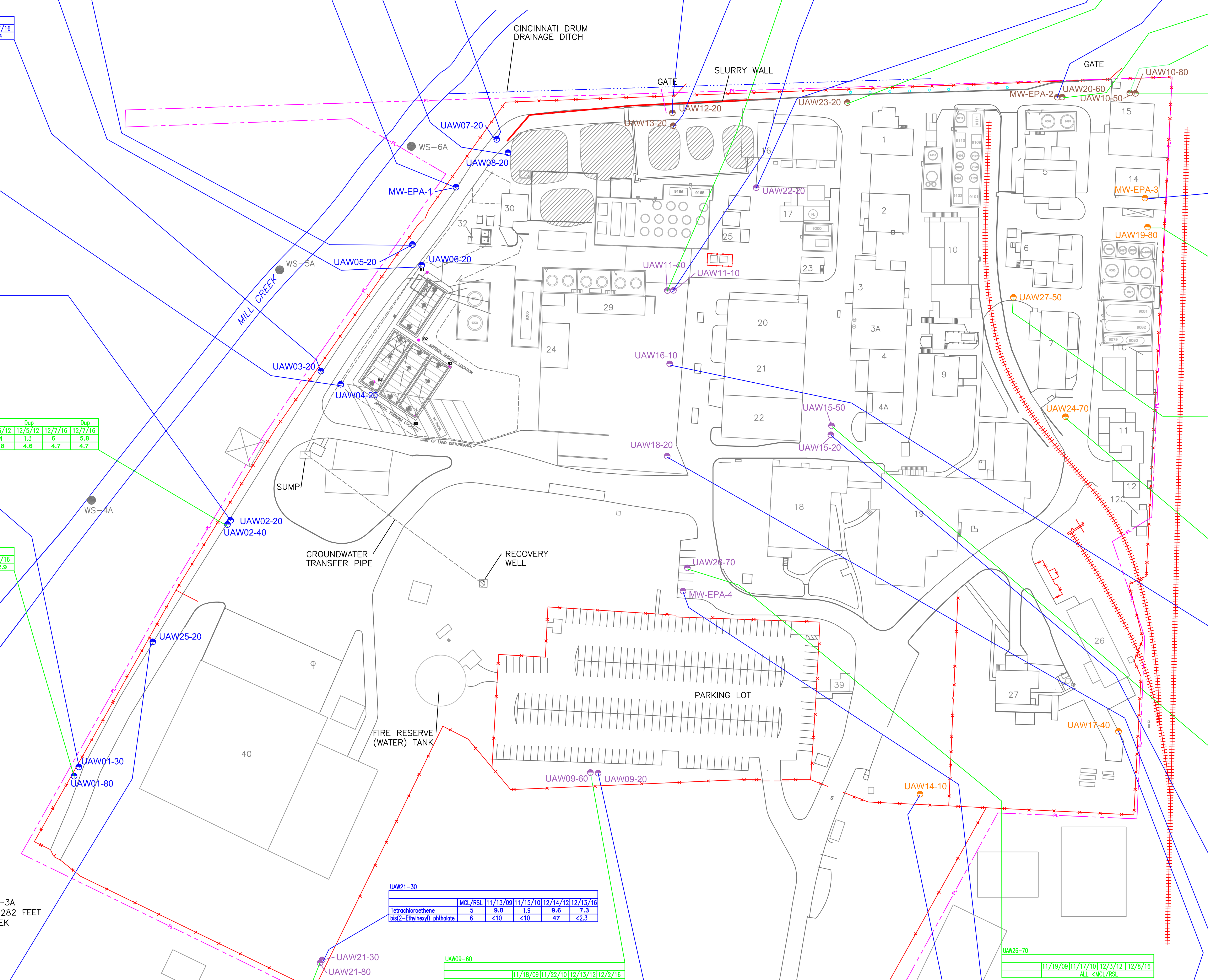
	11/18/09	11/22/10	12/13/12	12/5/16
	ALL <MCL/RSL			

UAW14-10

	MCL/RSL	11/24/09	11/30/10	12/13/12	12/14/16
bis(2-Ethylhexyl) phthalate	6	**75**	<10	<2	<2.1

UAW17-40

	11/13/09	11/11/10	12/13/12	12/14/16
	ALL <MCL/RSL			



WS-2A IS 578 FEET SOUTH OF WS-3A ALONG MILL CREEK AND WS-1A IS 282 FEET SOUTH OF WS-2A ALONG MILL CREEK

EXPLANATION

- UAW07-20 UPPER AQUIFER MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- WS-3A SURFACE WATER SAMPLE LOCATION
- PROPERTY BOUNDARY
- FRENCH DRAIN
- FORMER IMPOUNDMENT – (FROM 1960 AERIAL PHOTO)
- SHALLOW UPPER AQUIFER WELL
- DEEP UPPER AQUIFER WELL

THE DETECTION IS SHOWN IN **BOLD** IF IT EXCEEDS THE SCREENING LEVEL. THE SCREENING LEVEL IS THE MCL. IF A MCL IS NOT AVAILABLE, THE MAY 2016 TAP WATER RSL WAS USED.

MCL = MAXIMUM CONTAMINANT LEVEL
RSL = REGIONAL SCREENING LEVEL

Base Map Source: Rohm and Haas, 2008
Pre-2006 Data Source: Geomatrix, March 2006

ROHM AND HAAS CHEMICALS LLC
FORMER CINCINNATI, OHIO PLANT

FIGURE 4

VOCs AND SVOCs DETECTED IN GROUNDWATER ABOVE DRINKING WATER STANDARDS SINCE 2009

PARSONS
PARSONS
8443 CROWNE POINT DRIVE, CINCINNATI, OHIO 45241

450224.01000
P:\Dow_Projects\Cincinnati\2016\CAD\DOW_450224_SET_012017.dwg

UAW05-20

		Dup				
Metals	MCL/RSL	11/17/09	11/18/10	12/12/12	12/12/12	12/9/16
Arsenic	10	<10	**31.7**	**37**	**37**	**15**
Chromium	100	**770**	**1520**	**7700**	**6900**	**4500**
Iron	14,000	**50,700**	**21,300**	**31,000**	**29,000**	**14,000**
Manganese	430	**1620**	**1270 J**	**3800**	**3800**	**430**
Nickel	390	**3600**	**2000**	**2400**	**2200**	**630**
Thallium	2	**6.8 B**	10 U	**8.3 J**	**8.5 J**	<10
Cobalt	6	**33.5**	**31.9**	**49**	**45**	**6.3 J**

UAW08-20

Metals	MCL/RSL	11/16/09	11/19/10	11/27/12	12/9/16
Arsenic	10	**32.1**	**41.1**	**42**	**30**
Thallium	2	**5.1 B**	10 U	**5.3 J**	<10
Tin	12,000	6,890	5,890	13,000	4500

UAW13-20

Metals	MCL/RSL	11/19/09	11/29/10	12/4/12	12/9/16
Arsenic	10	**27.6**	**49.6**	**29**	**15**
Chromium	100	**34.5**	**43.9**	**180**	**570**
Manganese	430	**2,740**	**2,460 J**	**1,700**	**2,700**
Thallium	2	**5.4 B**	<10	<10	<10

UAW12-20

Metals	MCL/RSL	11/19/09	11/29/10	12/4/12	12/9/16
Manganese	430	**3,490**	**4,640 J**	**3,900**	**2,900**
Thallium	2	<10	<10	**4.8 J**	<10

UAW11-40

		Dup				
Metals	MCL/RSL	11/18/09	11/29/10	11/29/10	12/4/12	12/8/16
Manganese	430	883	759 J	680 J	1,400	1,400

UAW11-10

Metals	MCL/RSL	11/18/09	11/29/10	12/4/12	12/8/16
Arsenic	10	**14.9 B**	**10.3**	5 J	13
Manganese	430	**3790**	**8,700 J**	**1300**	**2400**

UAW22-20

		Dup				
Metals	MCL/RSL	11/11/09	11/15/10	11/15/10	12/7/12	12/14/16
Arsenic	10	<10	**10.7**	**11.5**	5.7 J	9.8 J
Cadmium	5	<2	<2	<2	2.9	**6.8**
Iron	14,000	12,600	**26,100**	**25,200**	4,700	**17,000**
Manganese	430	**8,110**	**9,260 J**	**8,970 J**	**2,300**	**4,700**
Thallium	2	<10	10 U	10 U	**4.9 J**	<10

UAW23-20

Metals	MCL/RSL	11/24/09	11/17/10	12/10/12	12/13/16
Chromium	100	671	660	120	54
Nickel	390	310	560	200	45

MW-EPA-2

Metals	MCL/RSL	11/23/09	11/18/10	12/10/12	12/14/16
Chromium	100	**370**	89.7	**1,800**	**220**
Iron	14,000	**20,700**	4,090	14,000	1800
Manganese	430	**1,100**	399 J	**790**	320
Thallium	2	<10	12.4 U	**4.9 J**	<10

UAW20-60

		Dup				
Metals	MCL/RSL	11/23/09	11/18/10	12/10/12	12/14/16	12/14/16
Thallium	2	<10	10 U	<10	2.6 J	<10

UAW10-50

		Dup
Metals	MCL/RSL	11/20/09 11/20/09 11/18/10 12/10/12 12/14/16
	ALL <MCL/RSL	

UAW10-80

Metals	MCL/RSL	11/20/09	11/18/10	12/10/12	12/15/16
Arsenic	10	9.1 B	13.8	8.5 J	15

MW-EPA-3

Metals	MCL/RSL	11/23/09	11/23/10	12/7/12	12/14/16
Chromium	100	19.9	70.2	**150**	**220**
Manganese	430	**595**	**693 J**	**880**	**910**
Nickel	390	639	**825**	190	290
Cobalt	6	**12.3**	**16.2**	**14**	**18**

UAW19-80

Metals	MCL/RSL	11/23/09	11/23/10	12/7/12	12/15/16
	ALL <MCL/RSL				

UAW16-10

		Dup			Dup	
Metals	MCL/RSL	11/20/09	11/17/10	11/30/12	12/8/16	12/8/16
Manganese	430	**2,040**	**1,980 J**	**1,400**	**1,400**	**980** **910**

UAW27-50

Metals	MCL/RSL	11/17/09	11/22/10	12/14/12	12/15/16
	ALL <MCL/RSL				

UAW15-50

		Dup			Dup	
Metals	MCL/RSL	11/17/09	11/23/10	11/23/10	12/5/12	12/8/16
Arsenic	10	42.7	42.2	42.1	48	12
Manganese	430	899	838 J	850 J	810	120
Thallium	2	<10	<10	<10	7.1 J	<10

UAW24-70

Metals	MCL/RSL	11/24/09	11/22/10	12/13/12	12/15/16
Arsenic	10	21.6	**23.8**	6.2 J	<10

UAW03-20

Metals	MCL/RSL	11/16/09	11/18/10	11/30/12	12/7/16
Arsenic	10	**10.3**	**14.5**	9 J	<10
Manganese	430	**1,260**	**1,860 J**	**1,200**	**450**
Thallium	2	**7.2 B**	10 U	<10	<10

UAW06-20

Metals	MCL/RSL	11/17/09	11/18/10	12/12/12	12/9/16
Manganese	430	**1,100**	**1,520 J**	**710**	**950**

MW-EPA-1

Metals	MCL/RSL	11/20/09	11/19/10	12/12/12	12/13/16
Antimony	6	<10	4.1 J	<10	**18**
Arsenic	10	**185**	**102**	**69**	**340**
Barium	2,000	657	985 J	340	5300
Chromium	100	**244**	24.1	39	39
Iron	14,000	5,990	6,300	4,600	**25,000**
Thallium	2	**5.3 B**	10 U	**4.8 J**	<10
Vanadium	86	**36.5**	78.7	33	**250**

UAW07-20

Metals	MCL/RSL	11/16/09	11/19/10	11/27/12	12/9/16
Manganese	430	**1,130**	**1,290 J**	**1,300**	**1,100**

UAW04-20

Metals	MCL/RSL	11/16/09	11/16/10	11/30/12	12/7/16
Arsenic	10	**67.9**	**131**	**13**	*7.8 J*
Chromium	100	<5	2.5 J	90	**170**
Manganese	430	**1,610**	**599 J**	**1,400**	**160**
Antimony	6	**56.6**	**617**	**22**	**16**

UAW02-20

Metals	MCL/RSL	11/12/09	11/12/10	12/5/12	12/7/16
Manganese	430	**423**	**514**	**630**	**570**

UAW02-40

		Dup		Dup		Dup	
Metals	MCL/RSL	11/12/09	11/12/09	11/12/10	12/5/12	12/7/16	12/7/16
Manganese	430	588	592	635	800	810	1100 1100

UAW01-30

Metals	MCL/RSL	11/12/09	11/16/10	11/29/12	12/6/16
Arsenic	10	**17.9**	**14.4**	**22**	**4.6 J**
Chromium	100	**115**	**202**	**1,600**	**220**
Manganese	430	**397**	**844 J**	**1,600**	**580**

UAW01-80

Metals	MCL/RSL	11/12/09	11/16/10	11/29/12	11/29/12	12/6/16	6/16
	ALL <MCL/RSL						

UAW21-30

Metals	MCL/RSL	11/13/09	11/15/10	12/14/12	12/13/16
Chromium	100	**201**	**507**	**330**	**300**
Manganese	430	121	154 J	340	63
Nickel	390	249	**1,230**	**810**	220
Thallium	2	10 U	10 U	<10	**2.1 J**
Cobalt	6	9	**12.6**	**24**	**6.2 J**

UAW21-80

Metals	MCL/RSL	11/13/09	11/15/10	12/14/12	12/13/16
Arsenic	10	43.8	46.3	54	85
Manganese	430	768	728 J	720	660

UAW25-20

Metals	MCL/RSL	11/12/09	11/12/10	11/29/12	12/6/16
Arsenic	10	**14.7**	**26.4**	**22**	**12**
Chromium	100	11.6	24.3	36	**120**
Manganese	430	**1,460**	**1,020**	**820**	**590**
Thallium	2	10 U	**7.3 J**	<10	<10

UAW09-60

Metals	MCL/RSL	11/18/09	11/22/10	12/13/12	12/2/16
	ALL <MCL/RSL				

UAW09-20

Metals	MCL/RSL	11/18/09	11/22/10	12/13/12	12/5/16
Chromium	100	27.1	**158**	49	56

UAW14-10

Metals	MCL/RSL	11/24/09	11/30/10	12/13/12	12/14/16
	ALL <MCL/RSL				

UAW15-20

Metals	MCL/RSL	11/11/09	11/23/10	12/5/12	12/8/16
Chromium	100	**246**	**1,150**	**3,200**	**130**
Iron	14,000	3,730	10,500 J	**16,000**	1,100
Nickel	390	**822**	**469**	230	58

UAW18-20

Metals	MCL/RSL	11/24/09	11/17/10	12/7/12	12/14/16
Manganese	430	**4,690**	**523 J**	**470**	79

UAW17-40

Metals	MCL/RSL	11/13/09	11/17/10	12/13/12	12/14/16
Arsenic	10	5 B	6.8 J	28	32
Thallium	2	<10	**8.8 J**	<10	<10

UAW26-70

Metals	MCL/RSL	11/19/09	11/17/10	12/3/12	12/8/16
Arsenic	10	5.9 B	9.8 J	12	13

MW-EPA-4

Metals	MCL/RSL	11/19/09	11/17/10	12/3/12	12/8/16
Chromium	100	221	658	**500**	**7700**
Iron	14,000	712	3,400	1,300	**16,000**
Nickel	390	249	662	220	**660**
Thallium	2	<10	13.4 U	<10	**3.3 J**
Cobalt	6	1.8 B	8.8	2.5 J	13

CINCINNATI DRUM DRAINAGE DITCH
GATE
SLURRY WALL
GATE
MILL CREEK
SUMP
GROUNDWATER TRANSFER PIPE
RECOVERY WELL
PARKING LOT
FIRE RESERVE (WATER) TANK
LIMIT OF LAND DISTURBANCE
WS-6A
WS-5A
WS-4A
WS-3A
UAW07-20
UAW08-20
MW-EPA-1
UAW05-20
UAW03-20
UAW04-20
UAW02-20
UAW02-40
UAW01-30
UAW01-80
UAW25-20
UAW21-30
UAW21-80
UAW12-20
UAW13-20
UAW22-20
UAW11-40
UAW11-10
UAW16-10
UAW15-50
UAW15-20
UAW18-20
UAW28-70
MW-EPA-4
UAW09-60
UAW09-20
UAW14-10
UAW23-20
MW-EPA-2
UAW20-60
UAW10-50
UAW10-80
MW-EPA-3
UAW19-80
UAW27-50
UAW24-70
UAW17-40
UAW26-70

WS-2A IS 578 FEET SOUTH OF WS-3A ALONG MILL CREEK AND WS-1A IS 282 FEET SOUTH OF WS-2A ALONG MILL CREEK

0 80 160
APPROXIMATE SCALE (FEET)

N

EXPLANATION

- UAW07-20 — UPPER AQUIFER MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- WS-3A — SURFACE WATER SAMPLE LOCATION
- PROPERTY BOUNDARY
- FRENCH DRAIN
- FORMER IMPOUNDMENT – (FROM 1960 AERIAL PHOTO)
- UAW##-## | DATE — SHALLOW UPPER AQUIFER WELL
- UAW##-## | DATE — DEEP UPPER AQUIFER WELL

THE DETECTION IS SHOWN IN **BOLD** IF IT EXCEEDS THE SCREENING LEVEL. THE SCREENING LEVEL IS THE MCL. IF A MCL IS NOT AVAILABLE, THE MAY 2016 TAP WATER RSL WAS USED.

MCL = MAXIMUM CONTAMINANT LEVEL
RSL = REGIONAL SCREENING LEVEL

Base Map Source: Rohm and Haas, 2008

ROHM AND HAAS CHEMICALS LLC
FORMER CINCINNATI, OHIO PLANT

FIGURE 5
METALS DETECTED IN GROUNDWATER ABOVE DRINKING WATER STANDARDS SINCE 2009

PARSONS
PARSONS
2443 CROWNE POINT DRIVE, CINCINNATI, OHIO 45241

450224.01000
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UAW05-20

		Dup					
	GWA	11/17/09	11/18/10	12/12/12	12/12/12	12/9/16
1,4-Dichlorobenzene	22	**220**	**130**	**160**	**160**	**110**
Benzene	11	**11 J**	**9.8 J**	**17 J**	**17 J**	9.5

UAW08-20

	GWA	11/16/09	11/19/10	11/27/12	12/9/16
Benzene	11	**97**	**90**	**130**	**120 J**
1,4-Dichlorobenzene	22	**31**	**37**	**52**	**55 J**
Ethylbenzene	28	**68**	**43**	**82**	**76 J**

UAW07-20

	GWA	11/16/09	11/19/10	11/27/12	12/9/16
1,4-Dichlorobenzene	22	**23**	**30**	**39**	**38**

UAW13-20

	GWA	11/19/09	11/29/10	12/4/12	12/9/16
Benzene	11	11	**14**	**17**	**7.8 J**
1,4-Dichlorobenzene	22	20	**24**	18	**36**

UAW12-20

	GWA	11/19/09	11/29/10	12/4/12	12/9/16
1,4-Dichlorobenzene	22	**190**	**180**	**130**	**110**

MW-EPA-1

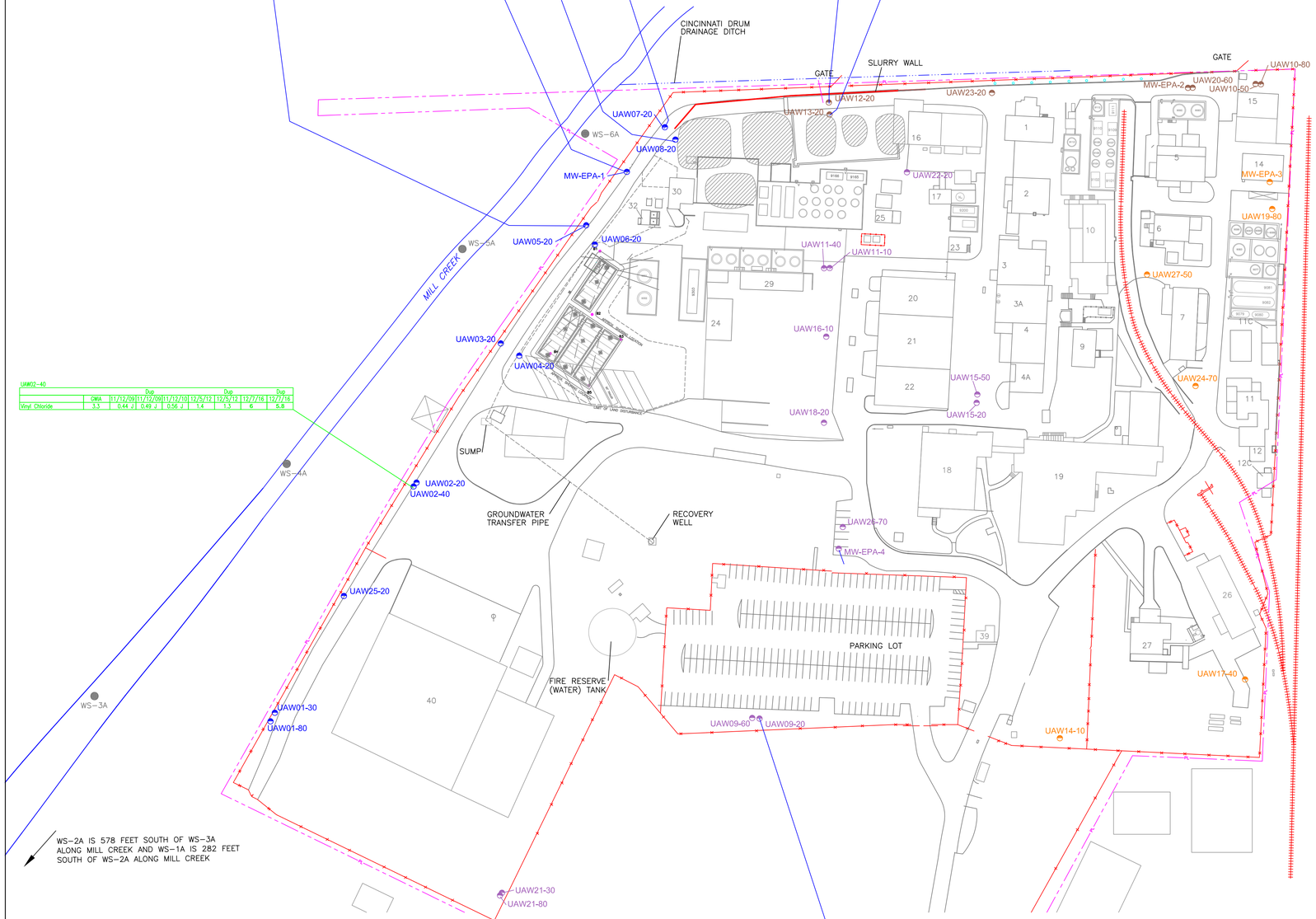
	GWA	11/20/09	11/19/10	12/12/12	12/13/18
1,4-Dichlorobenzene	22	**430**	**270**	**320**	**330**
Chlorobenzene	3,100	**7,400**	**5,400**	**5,400**	**5,200**
Benzene	11	<250	<200	**19**	<200

UAW02-40

		Dup			Dup		Dup
	GWA	11/12/09	11/12/09	11/12/10	12/5/12	12/5/12	12/7/16	12/7/16
Vinyl Chloride	3.3	0.44 J	0.49 J	0.56 J	1.4	1.3	6	5.8

UAW09-20

	GWA	11/18/09	11/22/10	12/13/12	12/5/16
Chloroform	5.5	12	8.7	<1	7.3



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APPROXIMATE SCALE (FEET)

N

EXPLANATION

UAW07-20 UPPER AQUIFER MONITORING WELL LOCATION

RECOVERY WELL LOCATION

WS-3A SURFACE WATER SAMPLE LOCATION

PROPERTY BOUNDARY

FRENCH DRAIN

FORMER IMPOUNDMENT – (FROM 1960 AERIAL PHOTO)

UAW11-11 | DATE — SHALLOW UPPER AQUIFER WELL

UAW11-11 | DATE — DEEP UPPER AQUIFER WELL

THE DETECTION IS SHOWN IN **BOLD** IF IT EXCEEDS THE SCREENING LEVEL.

GWIA = GROUNDWATER TO INDOOR AIR SCREENING LEVEL FOR A COMMERCIAL SCENARIO (VISL SOFTWARE, TR=1E-06, HQ=1)

Base Map Source: Rohm and Haas, 2008
Pre-2006 Data Source: Geomatrix, March 2006

ROHM AND HAAS CHEMICALS LLC
FORMER CINCINNATI, OHIO PLANT

FIGURE 6

VOCs DETECTED IN GROUNDWATER ABOVE GROUNDWATER TO INDOOR AIR SCREENING LEVELS SINCE 2009 FOR COMMERCIAL SCENARIO

PARSONS

PARSONS
2443 CROWNE POINT DRIVE, CINCINNATI, OHIO 45241

450224.01000
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UAW05-20

	OHIO WQC	12/9/16
1,2-Dichlorobenzene	23	410
1,4-Dichlorobenzene	9.4	110
Chlorobenzene	47	570
Aniline	4.1	16
Chromium	150	4500
Nickel	94	630
Tin	180	2200

UAW08-20

	OHIO WQC	12/9/16
1,2-Dichlorobenzene	23	490 J
1,4-Dichlorobenzene	9.4	55 J
Aniline	4.1	180
Biphenyl	6.5	8 J
Carbon Disulfide	15	250 J
Chlorobenzene	47	140 J
Ethylbenzene	61	76 J
Xylenes	27	220 J
Tin	180	4500

UAW07-20

	OHIO WQC	12/9/16
Chlorobenzene	47	390
1,2-Dichlorobenzene	23	170
1,4-Dichlorobenzene	9.4	38
Carbon Disulfide	15	78
Tin	180	300

UAW13-20

	OHIO WQC	12/9/16
Aniline	4.1	9.8 J
1,2-Dichlorobenzene	23	320
1,4-Dichlorobenzene	9.4	36
Carbon Disulfide	15	32
Chlorobenzene	47	64
Xylenes	27	28
Chromium	570	570
Tin	180	1300

UAW22-20

	OHIO WQC	12/14/16
Benzo(A)Anthrocene	0.49	2.2
Benzo(A)Pyrene	0.49	2.1
Benzo(B)Fluoranthene	0.49	3.1
Benzo(K)Fluoranthene	0.49	1.5
Indeno(123-cd)Pyrene	0.49	1.1
1,2-Dichlorobenzene	23	27
Anthrocene	0.02	1.1
Chrysene	0.49	2.4
Fluoranthene	0.8	5.9
Phenanthrene	2.3	3.2
Cadmium	4.2	6.8
Copper	17	29
Tin	180	320
Zinc	220	490

UAW23-20

	OHIO WQC	12/13/16
Selenium	5	30

UAW06-20

	OHIO WQC	12/9/16
1,2-Dichlorobenzene	23	39
Chlorobenzene	47	84
Tin	180	400

MW-EPA-1

	OHIO WQC	12/13/16
1,2-Dichlorobenzene	23	300
1,4-Dichlorobenzene	9.4	330
Aniline	4.1	130 J
Anthrocene	0.02	3.2 J
Chlorobenzene	47	5,200
Fluoranthene	0.8	3.7 J
Phenanthrene	2.3	9.1 J
Pyrene	4.6	9.3 J
Arsenic	150	340
Barium	220	5300
Tin	180	4200
Vanadium	44	250

UAW12-20

	OHIO WQC	12/9/16
1,2-Dichlorobenzene	23	400
1,4-Dichlorobenzene	9.4	110
1,3-Dichlorobenzene	22	37
Carbon Disulfide	15	150
Chlorobenzene	47	340
Tin	180	450

UAW11-10

	OHIO WQC	12/8/16
Tin	180	520

UAW20-60

		Dup	
	OHIO WQC	12/14/16	12/14/16
Tetrachloroethene	53	77	81

MW-EPA-2

	OHIO WQC	12/14/16
Tetrachloroethene	53	56
Chromium	150	220
Nickel	94	130

UAW03-20

	OHIO WQC	12/7/16
Tin	180	350

UAW04-20

	OHIO WQC	12/7/16
Chromium	150	170
Nickel	94	270

MW-EPA-3

	OHIO WQC	12/14/16
Chromium	150	220
Nickel	94	290

UAW01-30

	OHIO WQC	12/6/16
Chromium	150	220

UAW01-80

	OHIO WQC	12/6/16
Barium	220	280

UAW16-10

		Dup	
	OHIO WQC	12/8/16	12/8/16
Tin	180	1100	860

UAW15-50

	OHIO WQC	12/8/16
Copper	17	45
Tin	180	290

UAW21-30

	OHIO WQC	12/13/16
Chromium	150	300
Nickel	94	220

MW-EPA-4

	OHIO WQC	12/8/16
Chromium	150	7700
Copper	17	130
Nickel	94	660

UAW26-70

	OHIO WQC	12/8/16
Barium	220	260

CINCINNATI DRUM DRAINAGE DITCH

GATE

SLURRY WALL

GATE

UAW10-80

UAW23-20

UAW12-20

UAW13-20

UAW07-20

WS-6A

UAW08-20

MW-EPA-1

UAW22-20

UAW11-40

UAW11-10

UAW05-20

UAW08-20

WS-5A

MILL CREEK

UAW03-20

UAW04-20

UAW16-10

UAW15-50

UAW15-20

UAW18-20

UAW27-50

UAW24-70

UAW19-80

MW-EPA-3

MW-EPA-2

UAW20-60

UAW10-50

SUMP

WS-4A

UAW02-20

UAW02-40

GROUNDWATER TRANSFER PIPE

RECOVERY WELL

UAW26-70

MW-EPA-4

UAW25-20

PARKING LOT

FIRE RESERVE (WATER) TANK

UAW09-60

UAW09-20

UAW14-10

UAW17-40

WS-3A

UAW01-30

UAW01-80

UAW21-30

UAW21-80

WS-2A IS 578 FEET SOUTH OF WS-3A ALONG MILL CREEK AND WS-1A IS 282 FEET SOUTH OF WS-2A ALONG MILL CREEK

0 80 160

APPROXIMATE SCALE (FEET)

N

EXPLANATION

UAW07-20 UPPER AQUIFER MONITORING WELL LOCATION

RECOVERY WELL LOCATION

WS-3A SURFACE WATER SAMPLE LOCATION

PROPERTY BOUNDARY

FRENCH DRAIN

FORMER IMPOUNDMENT – (FROM 1960 AERIAL PHOTO)

UAW##-## | DATE — SHALLOW UPPER AQUIFER WELL

UAW##-## | DATE — DEEP UPPER AQUIFER WELL

THE DETECTION IS SHOWN IN **BOLD** IF IT EXCEEDS THE SCREENING LEVEL.

OHIO WQC–OHIO WATER QUALITY CRITERIA FOR THE OHIO RIVER BASIN, 1/12/2015 (LOWER OF THE OUTSIDE THE MIXING ZONE AVERAGE OR THE NONDRINKING HUMAN HEALTH CRITERIA)

Base Map Source: Rohm and Haas, 2008
Pre-2006 Data Source: Geomatrix, March 2006

ROHM AND HAAS CHEMICALS LLC
FORMER CINCINNATI, OHIO PLANT

FIGURE 7
CONSTITUENTS DETECTED IN GROUNDWATER ABOVE OHIO WATER QUALITY CRITERIA IN 2016

PARSONS
PARSONS
2443 CROWNE POINT DRIVE, CINCINNATI, OHIO 45241

450224.01000
P:\Dow_Projects\Cincinnati\2016\CAD\DOW_450224_SET_012017.dwg

Appendices

Appendix A

Groundwater Sampling Logs

Low-Flow Test Report:

Test Date / Time: 2016-12-05 13:24:58
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW09-20 **Latitude: 39.71905** **Longitude: -83.84115** **Well Diameter: 4 CM** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 26.61 M** **Initial Depth to Water: 22.43 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 24 FT** **Estimated Total Volume Pumped: 3175 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 150 ML_PER_MIN** **Final Draw Down: 0.01 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
Parsons

Former ROH Cincinnati Plant

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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-05 13:24:58	00:00	7.36 pH	14.45 °C	882.36 µS/cm	6.71 mg/L	8.16 NTU	109.8 mV	22.43 ft	150.00 ml/min
2016-12-05 13:27:58	02:59	7.35 pH	14.54 °C	885.94 µS/cm	6.38 mg/L	6.62 NTU	110.8 mV	22.43 ft	150.00 ml/min
2016-12-05 13:30:58	05:59	7.35 pH	14.84 °C	884.67 µS/cm	6.32 mg/L	4.57 NTU	112.1 mV	22.43 ft	150.00 ml/min
2016-12-05 13:33:57	08:59	7.36 pH	14.80 °C	887.27 µS/cm	6.35 mg/L	2.71 NTU	113.3 mV	22.43 ft	150.00 ml/min
2016-12-05 13:36:57	11:59	7.35 pH	14.68 °C	888.75 µS/cm	6.36 mg/L	2.04 NTU	114.9 mV	22.43 ft	150.00 ml/min
2016-12-05 13:39:57	14:58	7.35 pH	14.72 °C	893.76 µS/cm	6.40 mg/L	1.40 NTU	116.4 mV	22.43 ft	150.00 ml/min
2016-12-05 13:42:57	17:58	7.35 pH	14.78 °C	895.24 µS/cm	6.41 mg/L	1.22 NTU	117.1 mV	22.43 ft	150.00 ml/min
2016-12-05 13:46:08	21:09	7.36 pH	14.80 °C	892.65 µS/cm	6.39 mg/L	1.04 NTU	117.2 mV	22.43 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2016-12-06 11:22:38
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW01-80 **Latitude: 39.23312** **Longitude: -84.44166** **Well Diameter: 4 CM** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 81.6 M** **Initial Depth to Water: 25.57 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 76 FT** **Estimated Total Volume Pumped: 8540 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 150 ML_PER_MIN** **Final Draw Down: 0.1 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
Parsons

Former ROH Cincinnati Plant.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-06 11:22:38	00:00	7.42 pH	12.54 °C	924.17 µS/cm	2.07 mg/L	3.40 NTU	-120.1 mV	25.57 ft	150.00 ml/min
2016-12-06 11:25:38	03:00	7.40 pH	13.07 °C	932.62 µS/cm	1.36 mg/L	2.53 NTU	-128.6 mV	25.57 ft	150.00 ml/min
2016-12-06 11:28:38	05:59	7.42 pH	13.09 °C	926.58 µS/cm	1.01 mg/L	2.47 NTU	-132.1 mV	25.57 ft	150.00 ml/min
2016-12-06 11:31:38	08:59	7.41 pH	13.01 °C	927.30 µS/cm	0.83 mg/L	2.46 NTU	-133.6 mV	25.57 ft	150.00 ml/min
2016-12-06 11:34:38	11:59	7.41 pH	13.22 °C	927.57 µS/cm	0.71 mg/L	2.58 NTU	-134.9 mV	25.57 ft	150.00 ml/min
2016-12-06 11:37:38	14:59	7.41 pH	13.27 °C	927.53 µS/cm	0.63 mg/L	2.12 NTU	-135.5 mV	25.57 ft	150.00 ml/min
2016-12-06 11:40:38	17:59	7.41 pH	13.18 °C	875.73 µS/cm	0.57 mg/L	3.21 NTU	-136.3 mV	25.57 ft	150.00 ml/min
2016-12-06 11:43:38	20:59	7.41 pH	13.18 °C	867.63 µS/cm	0.52 mg/L	2.30 NTU	-136.2 mV	25.57 ft	150.00 ml/min
2016-12-06 11:46:38	23:59	7.41 pH	13.03 °C	865.67 µS/cm	0.48 mg/L	1.82 NTU	-136.1 mV	25.57 ft	150.00 ml/min
2016-12-06 11:49:37	26:59	7.42 pH	12.88 °C	863.93 µS/cm	0.45 mg/L	1.58 NTU	-136.3 mV	25.57 ft	150.00 ml/min
2016-12-06 11:52:37	29:58	7.42 pH	12.87 °C	864.35 µS/cm	0.43 mg/L	2.79 NTU	-136.5 mV	25.57 ft	150.00 ml/min
2016-12-06 11:55:36	32:58	7.41 pH	12.89 °C	863.93 µS/cm	0.41 mg/L	1.21 NTU	-136.6 mV	25.57 ft	150.00 ml/min
2016-12-06 11:58:36	35:57	7.42 pH	12.74 °C	857.27 µS/cm	0.39 mg/L	1.43 NTU	-136.7 mV	25.57 ft	150.00 ml/min
2016-12-06 12:01:36	38:58	7.42 pH	12.81 °C	862.67 µS/cm	0.38 mg/L	1.91 NTU	-136.9 mV	25.57 ft	150.00 ml/min

2016-12-06 12:04:36	41:58	7.42 pH	12.73 °C	856.91 µS/cm	0.36 mg/L	2.57 NTU	-137.0 mV	25.57 ft	150.00 ml/min
2016-12-06 12:07:36	44:57	7.42 pH	12.67 °C	856.36 µS/cm	0.35 mg/L	0.86 NTU	-137.1 mV	25.57 ft	150.00 ml/min
2016-12-06 12:10:35	47:56	7.42 pH	12.66 °C	861.42 µS/cm	0.35 mg/L	0.99 NTU	-137.2 mV	25.57 ft	150.00 ml/min
2016-12-06 12:13:35	50:56	7.42 pH	12.81 °C	856.59 µS/cm	0.33 mg/L	0.69 NTU	-137.6 mV	25.57 ft	150.00 ml/min
2016-12-06 12:16:35	53:56	7.42 pH	12.84 °C	852.23 µS/cm	0.32 mg/L	0.77 NTU	-137.8 mV	25.57 ft	150.00 ml/min
2016-12-06 12:19:34	56:55	7.42 pH	12.82 °C	852.73 µS/cm	0.32 mg/L	0.80 NTU	-137.9 mV	25.57 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2016-12-06 14:18:17
Project: 2016 Groundwater Sampling
Operator Name:

Location Name: UAW25-20 **Latitude: 39.23353** **Longitude: -84.44126** **Well Diameter: 4 IN** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 20 FT** **Initial Depth to Water: 17.43 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC:** **Estimated Total Volume Pumped: 5998.333 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 100 ML_PER_MIN** **Final Draw Down: 0.02 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
Parsons
Former ROH Cincinnati Plant
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-06 14:18:17	00:00	7.22 pH	17.91 °C	2,644.7 µS/cm	2.29 mg/L	666.29 NTU	-48.8 mV	17.43 ft	100.00 ml/min
2016-12-06 14:21:17	02:59	7.09 pH	16.50 °C	2,688.5 µS/cm	1.42 mg/L	585.78 NTU	-47.4 mV	17.43 ft	100.00 ml/min
2016-12-06 14:24:17	05:59	7.05 pH	15.84 °C	2,743.1 µS/cm	0.95 mg/L	437.92 NTU	-50.5 mV	17.43 ft	100.00 ml/min
2016-12-06 14:27:17	08:59	7.01 pH	15.49 °C	2,781.8 µS/cm	0.82 mg/L	341.25 NTU	-53.9 mV	17.43 ft	100.00 ml/min
2016-12-06 14:30:17	11:59	6.99 pH	15.27 °C	2,810.9 µS/cm	0.67 mg/L	277.43 NTU	-57.8 mV	17.43 ft	100.00 ml/min
2016-12-06 14:33:17	14:59	6.97 pH	15.25 °C	2,826.6 µS/cm	0.62 mg/L	241.78 NTU	-59.8 mV	17.43 ft	100.00 ml/min
2016-12-06 14:36:17	17:59	6.97 pH	14.74 °C	2,831.9 µS/cm	0.54 mg/L	204.00 NTU	-61.6 mV	17.43 ft	100.00 ml/min
2016-12-06 14:39:17	20:59	6.98 pH	14.42 °C	2,853.6 µS/cm	0.48 mg/L	172.80 NTU	-63.8 mV	17.43 ft	100.00 ml/min
2016-12-06 14:42:17	23:59	6.97 pH	14.24 °C	2,869.6 µS/cm	0.45 mg/L	145.19 NTU	-65.4 mV	17.43 ft	100.00 ml/min
2016-12-06 14:45:17	26:59	6.97 pH	14.16 °C	2,881.0 µS/cm	0.42 mg/L	128.54 NTU	-67.2 mV	17.43 ft	100.00 ml/min
2016-12-06 14:48:17	29:59	6.97 pH	14.35 °C	2,899.6 µS/cm	0.40 mg/L	141.42 NTU	-68.7 mV	17.43 ft	100.00 ml/min
2016-12-06 14:51:17	32:59	6.98 pH	14.55 °C	2,906.3 µS/cm	0.39 mg/L	103.28 NTU	-70.5 mV	17.43 ft	100.00 ml/min

2016-12-06 14:54:17	35:59	6.99 pH	14.15 °C	2,877.8 µS/cm	0.40 mg/L	103.22 NTU	-69.7 mV	17.43 ft	100.00 ml/min
2016-12-06 14:57:17	38:59	7.00 pH	14.00 °C	2,885.6 µS/cm	0.40 mg/L	101.27 NTU	-69.4 mV	17.43 ft	100.00 ml/min
2016-12-06 15:00:17	41:59	7.00 pH	14.09 °C	2,888.3 µS/cm	0.40 mg/L	87.77 NTU	-69.0 mV	17.43 ft	100.00 ml/min
2016-12-06 15:03:17	44:59	7.01 pH	14.04 °C	2,892.8 µS/cm	0.38 mg/L	79.56 NTU	-69.8 mV	17.43 ft	100.00 ml/min
2016-12-06 15:06:17	48:00	7.02 pH	13.90 °C	2,901.2 µS/cm	0.36 mg/L	73.16 NTU	-70.5 mV	17.43 ft	100.00 ml/min
2016-12-06 15:09:17	50:59	7.02 pH	13.89 °C	2,899.8 µS/cm	0.34 mg/L	61.92 NTU	-71.5 mV	17.43 ft	100.00 ml/min
2016-12-06 15:12:17	53:59	7.03 pH	14.02 °C	2,907.2 µS/cm	0.33 mg/L	56.29 NTU	-72.7 mV	17.43 ft	100.00 ml/min
2016-12-06 15:15:16	56:58	7.04 pH	13.72 °C	2,906.9 µS/cm	0.31 mg/L	51.89 NTU	-73.2 mV	17.43 ft	100.00 ml/min
2016-12-06 15:18:16	59:59	7.05 pH	13.94 °C	2,945.9 µS/cm	0.30 mg/L	98.97 NTU	-74.2 mV	17.43 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2016-12-07 11:26:56
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW02-40 **Latitude: 39.23393** **Longitude: -84.44084** **Well Diameter: 4 IN** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 46 FT** **Initial Depth to Water: 14.83 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 41 FT** **Estimated Total Volume Pumped: 9442.501 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 150 ML_PER_MIN** **Final Draw Down: 0 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
Parsons

Former ROH Cincinnati Plant

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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-07 11:26:56	00:00	7.39 pH	10.10 °C	1,373.5 µS/cm	2.34 mg/L	74.73 NTU	-66.4 mV	14.83 ft	150.00 ml/min
2016-12-07 11:29:56	03:00	7.36 pH	9.67 °C	1,355.8 µS/cm	1.80 mg/L	104.01 NTU	-69.7 mV	14.83 ft	150.00 ml/min
2016-12-07 11:32:56	06:00	7.34 pH	9.84 °C	1,373.3 µS/cm	1.58 mg/L	131.64 NTU	-70.6 mV	14.83 ft	150.00 ml/min
2016-12-07 11:35:56	09:00	7.34 pH	10.08 °C	1,369.2 µS/cm	1.43 mg/L	160.49 NTU	-71.2 mV	14.83 ft	150.00 ml/min
2016-12-07 11:38:56	11:59	7.35 pH	9.76 °C	1,361.7 µS/cm	1.31 mg/L	143.53 NTU	-71.0 mV	14.83 ft	150.00 ml/min
2016-12-07 11:41:56	14:59	7.35 pH	9.80 °C	1,366.0 µS/cm	1.23 mg/L	106.46 NTU	-71.3 mV	14.83 ft	150.00 ml/min
2016-12-07 11:44:56	17:59	7.35 pH	9.71 °C	1,364.1 µS/cm	1.14 mg/L	86.33 NTU	-71.9 mV	14.83 ft	150.00 ml/min
2016-12-07 11:47:56	20:59	7.34 pH	9.90 °C	1,370.2 µS/cm	1.09 mg/L	92.66 NTU	-72.4 mV	14.83 ft	150.00 ml/min
2016-12-07 11:50:55	23:59	7.34 pH	9.72 °C	1,365.4 µS/cm	1.03 mg/L	67.34 NTU	-73.0 mV	14.83 ft	150.00 ml/min
2016-12-07 11:53:55	26:59	7.34 pH	9.50 °C	1,364.7 µS/cm	0.99 mg/L	57.19 NTU	-73.6 mV	14.83 ft	150.00 ml/min
2016-12-07 11:56:55	29:58	7.33 pH	9.54 °C	1,370.1 µS/cm	0.95 mg/L	50.78 NTU	-74.2 mV	14.83 ft	150.00 ml/min
2016-12-07 11:59:55	32:59	7.33 pH	10.03 °C	1,376.6 µS/cm	0.92 mg/L	55.33 NTU	-75.5 mV	14.83 ft	150.00 ml/min

2016-12-07 12:02:55	35:58	7.34 pH	10.12 °C	1,367.3 µS/cm	0.88 mg/L	37.97 NTU	-76.5 mV	14.83 ft	150.00 ml/min
2016-12-07 12:05:54	38:58	7.34 pH	10.06 °C	1,364.9 µS/cm	0.85 mg/L	37.13 NTU	-76.8 mV	14.83 ft	150.00 ml/min
2016-12-07 12:08:54	41:57	7.34 pH	10.13 °C	1,358.7 µS/cm	0.81 mg/L	35.36 NTU	-77.2 mV	14.83 ft	150.00 ml/min
2016-12-07 12:11:54	44:57	7.33 pH	10.51 °C	1,367.3 µS/cm	0.79 mg/L	29.87 NTU	-77.9 mV	14.83 ft	150.00 ml/min
2016-12-07 12:14:53	47:57	7.33 pH	10.69 °C	1,362.8 µS/cm	0.78 mg/L	33.53 NTU	-78.6 mV	14.83 ft	150.00 ml/min
2016-12-07 12:17:53	50:57	7.34 pH	10.40 °C	1,353.3 µS/cm	0.75 mg/L	32.86 NTU	-78.6 mV	14.83 ft	150.00 ml/min
2016-12-07 12:20:53	53:57	7.34 pH	10.25 °C	1,359.5 µS/cm	0.73 mg/L	25.95 NTU	-78.6 mV	14.83 ft	150.00 ml/min
2016-12-07 12:23:53	56:56	7.33 pH	10.36 °C	1,366.2 µS/cm	0.72 mg/L	23.05 NTU	-79.0 mV	14.83 ft	150.00 ml/min
2016-12-07 12:26:53	59:57	7.31 pH	10.56 °C	1,372.5 µS/cm	0.71 mg/L	44.98 NTU	-78.5 mV	14.83 ft	150.00 ml/min
2016-12-07 12:29:53	01:02:57	7.33 pH	10.57 °C	1,364.6 µS/cm	0.71 mg/L	20.06 NTU	-79.8 mV	14.83 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2016-12-07 13:51:22
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW03-20 **Latitude: 39.23434** **Longitude: -84.44099** **Well Diameter: 4 IN** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 16.8 FT** **Initial Depth to Water: 12.05 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 15 FT** **Estimated Total Volume Pumped: 7288.667 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 130 ML_PER_MIN** **Final Draw Down: 0.15 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
Parsons
Former ROH Cincinnati Plant
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-07 13:51:22	00:00	7.18 pH	14.19 °C	730.64 µS/cm	3.28 mg/L	63.86 NTU	-0.1 mV	12.05 ft	130.00 ml/min
2016-12-07 13:54:22	03:00	7.19 pH	13.89 °C	728.87 µS/cm	2.58 mg/L	37.54 NTU	4.5 mV	12.05 ft	130.00 ml/min
2016-12-07 13:57:22	06:00	7.18 pH	13.35 °C	725.03 µS/cm	2.38 mg/L	36.00 NTU	10.7 mV	12.05 ft	130.00 ml/min
2016-12-07 14:00:22	09:00	7.17 pH	13.25 °C	723.77 µS/cm	1.98 mg/L	37.17 NTU	15.7 mV	12.05 ft	130.00 ml/min
2016-12-07 14:03:22	11:59	7.17 pH	12.96 °C	726.34 µS/cm	1.70 mg/L	35.14 NTU	19.5 mV	12.05 ft	130.00 ml/min
2016-12-07 14:06:21	14:59	7.16 pH	13.06 °C	734.96 µS/cm	1.54 mg/L	34.47 NTU	22.4 mV	12.05 ft	130.00 ml/min
2016-12-07 14:09:21	17:59	7.15 pH	12.72 °C	741.59 µS/cm	1.44 mg/L	33.53 NTU	25.1 mV	12.05 ft	130.00 ml/min
2016-12-07 14:12:21	20:59	7.15 pH	12.64 °C	756.71 µS/cm	1.38 mg/L	28.38 NTU	26.5 mV	12.05 ft	130.00 ml/min
2016-12-07 14:15:21	23:59	7.14 pH	12.55 °C	777.65 µS/cm	1.35 mg/L	29.89 NTU	26.9 mV	12.05 ft	130.00 ml/min
2016-12-07 14:18:21	26:59	7.10 pH	12.44 °C	834.67 µS/cm	1.34 mg/L	29.43 NTU	23.6 mV	12.05 ft	130.00 ml/min
2016-12-07 14:21:21	29:59	7.09 pH	12.32 °C	867.43 µS/cm	1.64 mg/L	32.01 NTU	18.2 mV	12.05 ft	130.00 ml/min
2016-12-07 14:24:21	32:59	7.11 pH	12.35 °C	877.53 µS/cm	1.92 mg/L	29.44 NTU	14.6 mV	12.05 ft	130.00 ml/min

2016-12-07 14:27:21	35:59	7.11 pH	12.20 °C	894.24 µS/cm	2.14 mg/L	27.53 NTU	13.2 mV	12.05 ft	130.00 ml/min
2016-12-07 14:30:21	38:59	7.10 pH	12.32 °C	915.75 µS/cm	2.31 mg/L	27.14 NTU	12.5 mV	12.05 ft	130.00 ml/min
2016-12-07 14:33:21	41:59	7.09 pH	12.24 °C	952.11 µS/cm	2.40 mg/L	26.77 NTU	11.7 mV	12.05 ft	130.00 ml/min
2016-12-07 14:36:21	44:59	7.06 pH	12.54 °C	996.54 µS/cm	2.46 mg/L	24.45 NTU	10.6 mV	12.05 ft	130.00 ml/min
2016-12-07 14:39:21	47:59	7.03 pH	12.59 °C	1,048.5 µS/cm	2.50 mg/L	26.24 NTU	9.5 mV	12.05 ft	130.00 ml/min
2016-12-07 14:41:26	50:04	7.02 pH	12.68 °C	1,083.5 µS/cm	2.50 mg/L	27.07 NTU	8.8 mV	12.05 ft	130.00 ml/min
2016-12-07 14:44:26	53:04	7.00 pH	12.62 °C	1,129.9 µS/cm	2.51 mg/L	25.91 NTU	7.6 mV	12.05 ft	130.00 ml/min
2016-12-07 14:47:26	56:04	6.99 pH	12.42 °C	1,169.8 µS/cm	2.51 mg/L	28.08 NTU	7.1 mV	12.05 ft	130.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2016-12-08 08:58:12
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW26-70 **Latitude: 39.23411** **Longitude: -84.43897** **Well Diameter: 4 CM** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 77.1 M** **Initial Depth to Water: 21.34 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 72 FT** **Estimated Total Volume Pumped: 8813 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 140 ML_PER_MIN** **Final Draw Down: 0 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
Parsons

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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-08 08:58:12	00:00	7.32 pH	7.82 °C	1,102.6 µS/cm	1.61 mg/L	12.14 NTU	-40.7 mV	21.34 ft	140.00 ml/min
2016-12-08 09:01:12	02:59	7.33 pH	7.29 °C	1,096.9 µS/cm	1.38 mg/L	7.98 NTU	-45.1 mV	21.34 ft	140.00 ml/min
2016-12-08 09:04:12	05:59	7.32 pH	7.46 °C	1,103.8 µS/cm	1.18 mg/L	7.82 NTU	-46.8 mV	21.34 ft	140.00 ml/min
2016-12-08 09:07:12	08:59	7.32 pH	7.56 °C	1,093.8 µS/cm	1.05 mg/L	8.49 NTU	-48.4 mV	21.34 ft	140.00 ml/min
2016-12-08 09:10:12	11:59	7.33 pH	7.50 °C	1,080.0 µS/cm	0.97 mg/L	9.83 NTU	-49.5 mV	21.34 ft	140.00 ml/min
2016-12-08 09:13:12	14:59	7.32 pH	8.16 °C	1,078.7 µS/cm	0.89 mg/L	9.21 NTU	-51.2 mV	21.34 ft	140.00 ml/min
2016-12-08 09:16:11	17:59	7.33 pH	7.97 °C	1,059.5 µS/cm	0.83 mg/L	8.11 NTU	-52.3 mV	21.34 ft	140.00 ml/min
2016-12-08 09:19:11	20:58	7.33 pH	8.34 °C	1,086.6 µS/cm	0.77 mg/L	6.91 NTU	-53.1 mV	21.34 ft	140.00 ml/min
2016-12-08 09:22:11	23:58	7.33 pH	8.65 °C	1,072.2 µS/cm	0.74 mg/L	10.04 NTU	-54.0 mV	21.34 ft	140.00 ml/min
2016-12-08 09:25:11	26:58	7.33 pH	8.71 °C	1,067.7 µS/cm	0.71 mg/L	6.73 NTU	-54.7 mV	21.34 ft	140.00 ml/min
2016-12-08 09:28:11	29:58	7.33 pH	9.18 °C	1,051.1 µS/cm	0.67 mg/L	7.85 NTU	-55.7 mV	21.34 ft	140.00 ml/min
2016-12-08 09:31:11	32:58	7.33 pH	9.43 °C	1,040.5 µS/cm	0.64 mg/L	6.47 NTU	-56.4 mV	21.34 ft	140.00 ml/min

2016-12-08 09:34:10	35:58	7.33 pH	9.81 °C	1,020.8 µS/cm	0.61 mg/L	6.79 NTU	-57.4 mV	21.34 ft	140.00 ml/min
2016-12-08 09:37:10	38:58	7.33 pH	10.11 °C	991.25 µS/cm	0.58 mg/L	5.91 NTU	-58.1 mV	21.34 ft	140.00 ml/min
2016-12-08 09:40:10	41:57	7.33 pH	10.26 °C	941.18 µS/cm	0.55 mg/L	7.13 NTU	-59.0 mV	21.34 ft	140.00 ml/min
2016-12-08 09:43:10	44:57	7.34 pH	9.88 °C	925.93 µS/cm	0.53 mg/L	11.49 NTU	-58.9 mV	21.34 ft	140.00 ml/min
2016-12-08 09:46:10	47:57	7.33 pH	9.76 °C	925.44 µS/cm	0.50 mg/L	5.24 NTU	-58.5 mV	21.34 ft	140.00 ml/min
2016-12-08 09:49:10	50:57	7.33 pH	10.13 °C	840.70 µS/cm	0.48 mg/L	6.21 NTU	-58.9 mV	21.34 ft	140.00 ml/min
2016-12-08 09:52:09	53:57	7.34 pH	10.27 °C	1,067.8 µS/cm	0.46 mg/L	3.05 NTU	-60.1 mV	21.34 ft	140.00 ml/min
2016-12-08 09:55:09	56:57	7.34 pH	10.53 °C	1,046.6 µS/cm	0.44 mg/L	3.73 NTU	-60.4 mV	21.34 ft	140.00 ml/min
2016-12-08 09:58:09	59:56	7.33 pH	10.18 °C	1,084.0 µS/cm	0.44 mg/L	10.88 NTU	-59.4 mV	21.34 ft	140.00 ml/min
2016-12-08 10:01:09	01:02:56	7.34 pH	10.11 °C	1,076.2 µS/cm	0.35 mg/L	5.66 NTU	-60.1 mV	21.34 ft	140.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2016-12-08 11:42:35
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW15-20 **Latitude: 39.23434** **Longitude: -84.43801** **Well Diameter: 4 IN** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 47 FT** **Initial Depth to Water: 11.01 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 42 FT** **Estimated Total Volume Pumped: 8995 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 150 ML_PER_MIN** **Final Draw Down: 0.2 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-08 11:42:35	00:00	7.34 pH	14.38 °C	2,157.0 µS/cm	1.47 mg/L	213.49 NTU	-3.2 mV	11.01 ft	150.00 ml/min
2016-12-08 11:45:35	03:00	7.31 pH	13.66 °C	2,149.3 µS/cm	0.86 mg/L	184.89 NTU	3.7 mV	11.01 ft	150.00 ml/min
2016-12-08 11:48:35	06:00	7.29 pH	13.85 °C	2,150.4 µS/cm	0.81 mg/L	149.32 NTU	8.1 mV	11.01 ft	150.00 ml/min
2016-12-08 11:51:35	08:59	7.29 pH	13.50 °C	2,134.5 µS/cm	0.76 mg/L	136.06 NTU	12.6 mV	11.01 ft	150.00 ml/min
2016-12-08 11:54:34	11:59	7.28 pH	13.34 °C	2,144.6 µS/cm	0.74 mg/L	103.67 NTU	15.8 mV	11.01 ft	150.00 ml/min
2016-12-08 11:57:34	14:59	7.27 pH	13.58 °C	2,143.3 µS/cm	0.74 mg/L	87.50 NTU	18.0 mV	11.01 ft	150.00 ml/min
2016-12-08 12:00:34	17:59	7.27 pH	13.37 °C	2,167.5 µS/cm	0.75 mg/L	74.47 NTU	20.2 mV	11.01 ft	150.00 ml/min
2016-12-08 12:03:34	20:58	7.27 pH	13.36 °C	2,148.6 µS/cm	0.72 mg/L	64.88 NTU	21.7 mV	11.01 ft	150.00 ml/min
2016-12-08 12:06:34	23:58	7.27 pH	13.34 °C	2,163.6 µS/cm	0.71 mg/L	58.07 NTU	22.5 mV	11.01 ft	150.00 ml/min
2016-12-08 12:09:34	26:58	7.27 pH	13.25 °C	2,152.2 µS/cm	0.69 mg/L	51.67 NTU	23.1 mV	11.01 ft	150.00 ml/min
2016-12-08 12:12:34	29:59	7.28 pH	13.07 °C	2,145.6 µS/cm	0.68 mg/L	40.51 NTU	24.3 mV	11.01 ft	150.00 ml/min
2016-12-08 12:15:34	32:58	7.28 pH	13.15 °C	2,143.7 µS/cm	0.66 mg/L	38.12 NTU	25.6 mV	11.01 ft	150.00 ml/min

2016-12-08 12:18:33	35:58	7.28 pH	13.14 °C	2,140.4 µS/cm	0.67 mg/L	39.14 NTU	26.3 mV	11.01 ft	150.00 ml/min
2016-12-08 12:21:33	38:58	7.29 pH	12.92 °C	2,137.0 µS/cm	0.68 mg/L	34.17 NTU	27.1 mV	11.01 ft	150.00 ml/min
2016-12-08 12:24:33	41:57	7.29 pH	12.98 °C	2,143.8 µS/cm	0.67 mg/L	26.71 NTU	27.6 mV	11.01 ft	150.00 ml/min
2016-12-08 12:27:33	44:58	7.29 pH	13.44 °C	2,141.9 µS/cm	0.67 mg/L	25.85 NTU	27.7 mV	11.01 ft	150.00 ml/min
2016-12-08 12:30:33	47:58	7.29 pH	13.53 °C	2,133.6 µS/cm	0.67 mg/L	20.92 NTU	28.0 mV	11.01 ft	150.00 ml/min
2016-12-08 12:33:33	50:58	7.30 pH	13.34 °C	2,131.0 µS/cm	0.67 mg/L	19.44 NTU	28.5 mV	11.01 ft	150.00 ml/min
2016-12-08 12:36:33	53:58	7.30 pH	13.24 °C	2,129.5 µS/cm	0.65 mg/L	16.65 NTU	29.1 mV	11.01 ft	150.00 ml/min
2016-12-08 12:39:33	56:58	7.31 pH	12.96 °C	2,120.5 µS/cm	0.64 mg/L	16.12 NTU	29.5 mV	11.01 ft	150.00 ml/min
2016-12-08 12:42:33	59:57	7.31 pH	13.23 °C	2,129.4 µS/cm	0.65 mg/L	83.39 NTU	29.5 mV	11.01 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2016-12-08 13:34:13
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW11-10 **Latitude: 39.23489** **Longitude: -84.43889** **Well Diameter: 4 IN** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 14.1 FT** **Initial Depth to Water: 9.32 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 12 FT** **Estimated Total Volume Pumped: 8397.665 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 140 ML_PER_MIN** **Final Draw Down: 0 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-08 13:34:13	00:00	6.88 pH	15.01 °C	7,030.2 µS/cm	0.37 mg/L	42.67 NTU	-87.4 mV	9.32 ft	140.00 ml/min
2016-12-08 13:37:13	02:59	6.87 pH	15.09 °C	6,765.1 µS/cm	0.30 mg/L	30.60 NTU	-89.3 mV	9.32 ft	140.00 ml/min
2016-12-08 13:40:13	05:59	6.90 pH	15.24 °C	6,076.1 µS/cm	0.27 mg/L	26.73 NTU	-90.2 mV	9.32 ft	140.00 ml/min
2016-12-08 13:43:13	08:59	6.93 pH	15.22 °C	5,349.5 µS/cm	0.25 mg/L	20.75 NTU	-89.6 mV	9.32 ft	140.00 ml/min
2016-12-08 13:46:12	11:59	6.95 pH	15.38 °C	4,747.9 µS/cm	0.23 mg/L	17.97 NTU	-88.6 mV	9.32 ft	140.00 ml/min
2016-12-08 13:49:12	14:59	6.96 pH	15.19 °C	4,381.6 µS/cm	0.21 mg/L	12.57 NTU	-86.8 mV	9.32 ft	140.00 ml/min
2016-12-08 13:52:12	17:58	6.98 pH	14.82 °C	4,118.5 µS/cm	0.20 mg/L	13.45 NTU	-85.5 mV	9.32 ft	140.00 ml/min
2016-12-08 13:55:12	20:59	6.99 pH	14.82 °C	3,923.9 µS/cm	0.19 mg/L	7.37 NTU	-85.4 mV	9.32 ft	140.00 ml/min
2016-12-08 13:58:12	23:58	7.00 pH	14.82 °C	3,764.8 µS/cm	0.18 mg/L	6.23 NTU	-85.6 mV	9.32 ft	140.00 ml/min
2016-12-08 14:01:12	26:58	7.00 pH	14.97 °C	3,680.7 µS/cm	0.17 mg/L	4.29 NTU	-86.0 mV	9.32 ft	140.00 ml/min
2016-12-08 14:04:12	29:58	7.01 pH	15.04 °C	3,624.8 µS/cm	0.16 mg/L	3.68 NTU	-86.5 mV	9.32 ft	140.00 ml/min
2016-12-08 14:07:12	32:59	7.01 pH	14.69 °C	3,583.9 µS/cm	0.16 mg/L	3.22 NTU	-86.6 mV	9.32 ft	140.00 ml/min

2016-12-08 14:10:12	35:58	7.01 pH	14.46 °C	3,535.7 µS/cm	0.15 mg/L	3.22 NTU	-86.8 mV	9.32 ft	140.00 ml/min
2016-12-08 14:13:12	38:58	7.01 pH	14.50 °C	3,509.7 µS/cm	0.15 mg/L	3.10 NTU	-87.1 mV	9.32 ft	140.00 ml/min
2016-12-08 14:16:12	41:58	7.01 pH	14.39 °C	3,468.5 µS/cm	0.15 mg/L	2.27 NTU	-86.9 mV	9.32 ft	140.00 ml/min
2016-12-08 14:19:12	44:59	7.01 pH	14.55 °C	3,423.8 µS/cm	0.15 mg/L	2.40 NTU	-87.1 mV	9.32 ft	140.00 ml/min
2016-12-08 14:22:12	47:58	7.01 pH	14.44 °C	3,399.7 µS/cm	0.14 mg/L	2.06 NTU	-87.3 mV	9.32 ft	140.00 ml/min
2016-12-08 14:25:12	50:58	7.01 pH	14.45 °C	3,365.9 µS/cm	0.14 mg/L	1.69 NTU	-87.6 mV	9.32 ft	140.00 ml/min
2016-12-08 14:28:12	53:58	7.01 pH	14.62 °C	3,368.1 µS/cm	0.14 mg/L	1.37 NTU	-88.2 mV	9.32 ft	140.00 ml/min
2016-12-08 14:31:12	56:58	7.01 pH	14.47 °C	3,329.0 µS/cm	0.13 mg/L	1.57 NTU	-88.4 mV	9.32 ft	140.00 ml/min
2016-12-08 14:34:12	59:58	7.01 pH	14.50 °C	3,310.1 µS/cm	0.13 mg/L	6.40 NTU	-88.6 mV	9.32 ft	140.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2016-12-09 09:14:39
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW12-20 **Latitude: 39.23607** **Longitude: -84.4387** **Well Diameter: 4 IN** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 16.6 FT** **Initial Depth to Water: 10.29 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 14 FT** **Estimated Total Volume Pumped: 8995.001 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 150 ML_PER_MIN** **Final Draw Down: 0 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-09 09:14:39	00:00	6.41 pH	15.97 °C	3,875.2 µS/cm	0.27 mg/L	22.77 NTU	-44.0 mV	10.29 ft	150.00 ml/min
2016-12-09 09:17:39	03:00	6.38 pH	15.34 °C	3,940.3 µS/cm	0.25 mg/L	2.02 NTU	-48.4 mV	10.29 ft	150.00 ml/min
2016-12-09 09:20:39	06:00	6.39 pH	14.84 °C	3,949.5 µS/cm	0.24 mg/L	2.04 NTU	-53.0 mV	10.29 ft	150.00 ml/min
2016-12-09 09:23:39	08:59	6.39 pH	15.40 °C	4,024.0 µS/cm	0.23 mg/L	2.22 NTU	-56.7 mV	10.29 ft	150.00 ml/min
2016-12-09 09:26:39	12:00	6.40 pH	15.14 °C	4,038.7 µS/cm	0.22 mg/L	1.17 NTU	-59.9 mV	10.29 ft	150.00 ml/min
2016-12-09 09:29:39	15:00	6.41 pH	15.10 °C	4,076.6 µS/cm	0.21 mg/L	1.19 NTU	-63.0 mV	10.29 ft	150.00 ml/min
2016-12-09 09:32:39	17:59	6.42 pH	15.58 °C	4,097.9 µS/cm	0.20 mg/L	1.07 NTU	-68.3 mV	10.29 ft	150.00 ml/min
2016-12-09 09:35:39	21:00	6.46 pH	15.23 °C	4,086.8 µS/cm	0.19 mg/L	1.16 NTU	-76.0 mV	10.29 ft	150.00 ml/min
2016-12-09 09:38:39	24:00	6.47 pH	15.17 °C	4,126.6 µS/cm	0.18 mg/L	0.88 NTU	-82.5 mV	10.29 ft	150.00 ml/min
2016-12-09 09:41:39	27:00	6.49 pH	15.30 °C	4,147.1 µS/cm	0.18 mg/L	0.82 NTU	-89.4 mV	10.29 ft	150.00 ml/min
2016-12-09 09:44:39	29:59	6.51 pH	15.25 °C	4,166.1 µS/cm	0.17 mg/L	2.29 NTU	-96.4 mV	10.29 ft	150.00 ml/min
2016-12-09 09:47:38	32:59	6.53 pH	15.17 °C	4,198.9 µS/cm	0.16 mg/L	0.84 NTU	-104.3 mV	10.29 ft	150.00 ml/min

2016-12-09 09:50:38	35:59	6.54 pH	15.25 °C	4,221.2 µS/cm	0.16 mg/L	0.92 NTU	-115.8 mV	10.29 ft	150.00 ml/min
2016-12-09 09:53:38	38:59	6.56 pH	15.59 °C	4,262.3 µS/cm	0.16 mg/L	0.83 NTU	-132.3 mV	10.29 ft	150.00 ml/min
2016-12-09 09:56:38	41:59	6.59 pH	15.25 °C	4,268.6 µS/cm	0.15 mg/L	0.63 NTU	-156.2 mV	10.29 ft	150.00 ml/min
2016-12-09 09:59:38	44:58	6.61 pH	15.21 °C	4,301.5 µS/cm	0.14 mg/L	0.77 NTU	-185.3 mV	10.29 ft	150.00 ml/min
2016-12-09 10:02:38	47:59	6.65 pH	15.03 °C	4,314.2 µS/cm	0.12 mg/L	0.67 NTU	-217.3 mV	10.29 ft	150.00 ml/min
2016-12-09 10:05:38	50:58	6.68 pH	15.08 °C	4,373.0 µS/cm	0.10 mg/L	0.62 NTU	-235.9 mV	10.29 ft	150.00 ml/min
2016-12-09 10:08:37	53:58	6.70 pH	15.34 °C	4,414.0 µS/cm	0.07 mg/L	0.60 NTU	-260.1 mV	10.29 ft	150.00 ml/min
2016-12-09 10:11:37	56:58	6.73 pH	14.92 °C	4,394.7 µS/cm	0.07 mg/L	0.57 NTU	-277.9 mV	10.29 ft	150.00 ml/min
2016-12-09 10:14:37	59:58	6.74 pH	15.02 °C	4,377.8 µS/cm	0.08 mg/L	1.18 NTU	-287.2 mV	10.29 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2016-12-09 11:28:02
Project: 2016 Groundwater Sampling
Operator Name:

Location Name: UAW05-20 **Latitude: 39.23482** **Longitude: -84.44019** **Well Diameter: 4 IN** **Casing Type: PVC** **Screen Length:** **Top of Screen:** **Total Depth: 19.2 FT** **Initial Depth to Water: 11.23 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 16 FT** **Estimated Total Volume Pumped: 7789.168 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 130 ML_PER_MIN** **Final Draw Down: 0.2 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
Parsons
Former ROH Cincinnati Plant
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-09 11:28:02	00:00	6.90 pH	8.74 °C	6,828.4 µS/cm	1.68 mg/L	242.96 NTU	-172.5 mV	11.23 ft	130.00 ml/min
2016-12-09 11:31:02	02:59	6.57 pH	8.45 °C	7,078.3 µS/cm	0.93 mg/L	225.12 NTU	-175.4 mV	11.23 ft	130.00 ml/min
2016-12-09 11:34:02	06:00	6.54 pH	8.48 °C	7,004.3 µS/cm	0.67 mg/L	221.39 NTU	-177.4 mV	11.23 ft	130.00 ml/min
2016-12-09 11:37:02	08:59	6.53 pH	8.10 °C	7,042.5 µS/cm	0.55 mg/L	209.43 NTU	-177.4 mV	11.23 ft	130.00 ml/min
2016-12-09 11:40:01	11:59	6.52 pH	7.76 °C	7,016.3 µS/cm	0.48 mg/L	205.96 NTU	-177.8 mV	11.23 ft	130.00 ml/min
2016-12-09 11:43:01	14:58	6.51 pH	7.99 °C	7,062.3 µS/cm	0.44 mg/L	201.38 NTU	-178.1 mV	11.23 ft	130.00 ml/min
2016-12-09 11:46:00	17:58	6.52 pH	7.03 °C	6,958.0 µS/cm	0.38 mg/L	196.18 NTU	-177.4 mV	11.23 ft	130.00 ml/min
2016-12-09 11:49:00	20:58	6.51 pH	7.32 °C	7,042.2 µS/cm	0.37 mg/L	190.68 NTU	-177.7 mV	11.23 ft	130.00 ml/min
2016-12-09 11:52:00	23:58	6.50 pH	7.69 °C	7,019.8 µS/cm	0.35 mg/L	174.24 NTU	-178.5 mV	11.23 ft	130.00 ml/min
2016-12-09 11:55:00	26:58	6.50 pH	7.43 °C	6,952.3 µS/cm	0.33 mg/L	163.80 NTU	-178.4 mV	11.23 ft	130.00 ml/min
2016-12-09 11:58:00	29:58	6.50 pH	7.35 °C	6,902.1 µS/cm	0.32 mg/L	158.84 NTU	-179.3 mV	11.23 ft	130.00 ml/min
2016-12-09 12:01:00	32:58	6.50 pH	7.29 °C	6,886.3 µS/cm	0.30 mg/L	144.61 NTU	-178.5 mV	11.23 ft	130.00 ml/min

2016-12-09 12:04:00	35:57	6.48 pH	8.09 °C	6,871.3 µS/cm	0.30 mg/L	137.50 NTU	-179.9 mV	11.23 ft	130.00 ml/min
2016-12-09 12:06:59	38:57	6.48 pH	8.25 °C	6,771.2 µS/cm	0.29 mg/L	124.75 NTU	-180.8 mV	11.23 ft	130.00 ml/min
2016-12-09 12:09:59	41:56	6.48 pH	8.16 °C	6,674.0 µS/cm	0.28 mg/L	122.98 NTU	-182.1 mV	11.23 ft	130.00 ml/min
2016-12-09 12:12:58	44:56	6.48 pH	8.08 °C	6,604.8 µS/cm	0.27 mg/L	107.58 NTU	-182.4 mV	11.23 ft	130.00 ml/min
2016-12-09 12:15:58	47:56	6.48 pH	7.93 °C	6,476.0 µS/cm	0.26 mg/L	102.10 NTU	-183.0 mV	11.23 ft	130.00 ml/min
2016-12-09 12:18:58	50:55	6.49 pH	7.66 °C	6,433.4 µS/cm	0.25 mg/L	98.37 NTU	-183.0 mV	11.23 ft	130.00 ml/min
2016-12-09 12:21:58	53:55	6.48 pH	7.88 °C	6,341.7 µS/cm	0.25 mg/L	85.94 NTU	-183.6 mV	11.23 ft	130.00 ml/min
2016-12-09 12:24:58	56:56	6.48 pH	7.68 °C	6,217.4 µS/cm	0.24 mg/L	83.03 NTU	-184.1 mV	11.23 ft	130.00 ml/min
2016-12-09 12:27:57	59:55	6.50 pH	7.47 °C	6,071.7 µS/cm	0.23 mg/L	83.18 NTU	-184.2 mV	11.23 ft	130.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2016-12-09 13:30:36
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW06-20 **Latitude: 39.23506** **Longitude: -84.44** **Well Diameter: 4 IN** **Casing Type: PVC** **Screen Length:** **Top of Screen:** **Total Depth: 19.2 FT** **Initial Depth to Water: 11.27 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 16 FT** **Estimated Total Volume Pumped: 7793.499 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 130 ML_PER_MIN** **Final Draw Down: 0.2 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
Parsons
Former ROH Cincinnati Plant
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-09 13:30:36	00:00	7.26 pH	15.42 °C	4,289.6 µS/cm	0.27 mg/L	71.97 NTU	-228.1 mV	11.27 ft	130.00 ml/min
2016-12-09 13:33:36	02:59	7.19 pH	15.49 °C	4,259.6 µS/cm	0.23 mg/L	54.11 NTU	-231.8 mV	11.27 ft	130.00 ml/min
2016-12-09 13:36:36	05:59	7.19 pH	15.38 °C	4,180.1 µS/cm	0.20 mg/L	49.95 NTU	-236.2 mV	11.27 ft	130.00 ml/min
2016-12-09 13:39:36	08:59	7.19 pH	15.45 °C	4,085.1 µS/cm	0.18 mg/L	39.11 NTU	-241.3 mV	11.27 ft	130.00 ml/min
2016-12-09 13:42:36	12:00	7.18 pH	15.54 °C	3,999.6 µS/cm	0.17 mg/L	32.03 NTU	-245.3 mV	11.27 ft	130.00 ml/min
2016-12-09 13:45:36	14:59	7.18 pH	15.57 °C	3,924.0 µS/cm	0.15 mg/L	34.70 NTU	-248.3 mV	11.27 ft	130.00 ml/min
2016-12-09 13:48:36	17:59	7.18 pH	15.29 °C	3,850.8 µS/cm	0.14 mg/L	30.42 NTU	-250.3 mV	11.27 ft	130.00 ml/min
2016-12-09 13:51:36	20:59	7.18 pH	15.36 °C	3,790.9 µS/cm	0.13 mg/L	28.11 NTU	-252.8 mV	11.27 ft	130.00 ml/min
2016-12-09 13:54:36	23:59	7.18 pH	15.40 °C	3,765.1 µS/cm	0.13 mg/L	22.03 NTU	-254.2 mV	11.27 ft	130.00 ml/min
2016-12-09 13:57:35	26:58	7.18 pH	15.58 °C	3,693.4 µS/cm	0.12 mg/L	20.86 NTU	-256.1 mV	11.27 ft	130.00 ml/min
2016-12-09 14:00:35	29:58	7.18 pH	15.44 °C	3,580.9 µS/cm	0.11 mg/L	20.21 NTU	-258.8 mV	11.27 ft	130.00 ml/min
2016-12-09 14:03:35	32:58	7.18 pH	15.44 °C	3,485.5 µS/cm	0.10 mg/L	21.00 NTU	-261.5 mV	11.27 ft	130.00 ml/min

2016-12-09 14:06:35	35:58	7.18 pH	15.35 °C	3,431.5 µS/cm	0.09 mg/L	17.71 NTU	-263.2 mV	11.27 ft	130.00 ml/min
2016-12-09 14:09:34	38:57	7.18 pH	15.51 °C	3,402.5 µS/cm	0.09 mg/L	16.68 NTU	-264.1 mV	11.27 ft	130.00 ml/min
2016-12-09 14:12:34	41:57	7.18 pH	15.27 °C	3,357.8 µS/cm	0.08 mg/L	12.02 NTU	-264.6 mV	11.27 ft	130.00 ml/min
2016-12-09 14:15:34	44:57	7.18 pH	15.40 °C	3,325.3 µS/cm	0.08 mg/L	14.22 NTU	-265.9 mV	11.27 ft	130.00 ml/min
2016-12-09 14:18:34	47:57	7.18 pH	15.43 °C	3,293.6 µS/cm	0.07 mg/L	11.90 NTU	-267.1 mV	11.27 ft	130.00 ml/min
2016-12-09 14:21:34	50:57	7.18 pH	15.31 °C	3,276.4 µS/cm	0.07 mg/L	11.34 NTU	-267.7 mV	11.27 ft	130.00 ml/min
2016-12-09 14:24:34	53:57	7.18 pH	15.31 °C	3,269.8 µS/cm	0.07 mg/L	11.91 NTU	-267.8 mV	11.27 ft	130.00 ml/min
2016-12-09 14:27:33	56:57	7.18 pH	15.22 °C	3,251.8 µS/cm	0.07 mg/L	12.44 NTU	-268.3 mV	11.27 ft	130.00 ml/min
2016-12-09 14:30:33	59:56	7.18 pH	15.08 °C	3,255.1 µS/cm	0.07 mg/L	22.59 NTU	-268.8 mV	11.27 ft	130.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2016-12-13 11:01:21
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW21-30 **Latitude: 39.23249** **Longitude: -84.44028** **Well Diameter: 4 IN** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 28.8 FT** **Initial Depth to Water: 24.04 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 27 FT** **Estimated Total Volume Pumped: 8747.667 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 140 ML_PER_MIN** **Final Draw Down: 0 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
Parsons
Former ROH Cincinnati Plant
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-13 11:01:21	00:00	7.40 pH	6.38 °C	849.46 µS/cm	6.03 mg/L	159.24 NTU	-149.1 mV	24.04 ft	140.00 ml/min
2016-12-13 11:04:21	02:59	7.39 pH	6.04 °C	844.00 µS/cm	6.18 mg/L	120.43 NTU	-147.8 mV	24.04 ft	140.00 ml/min
2016-12-13 11:09:52	08:31	7.38 pH	5.71 °C	845.06 µS/cm	6.18 mg/L	103.33 NTU	-147.0 mV	24.04 ft	140.00 ml/min
2016-12-13 11:39:57	38:35	7.40 pH	5.78 °C	851.99 µS/cm	6.48 mg/L	36.15 NTU	-141.9 mV	24.04 ft	140.00 ml/min
2016-12-13 11:48:51	47:29	7.42 pH	5.13 °C	849.37 µS/cm	6.55 mg/L	28.70 NTU	-138.7 mV	24.04 ft	140.00 ml/min
2016-12-13 11:51:50	50:29	7.42 pH	5.12 °C	852.26 µS/cm	6.60 mg/L	25.32 NTU	-137.7 mV	24.04 ft	140.00 ml/min
2016-12-13 11:54:50	53:29	7.41 pH	5.56 °C	855.37 µS/cm	6.66 mg/L	36.57 NTU	-137.9 mV	24.04 ft	140.00 ml/min
2016-12-13 11:57:50	56:29	7.41 pH	5.62 °C	850.17 µS/cm	6.64 mg/L	22.87 NTU	-137.0 mV	24.04 ft	140.00 ml/min
2016-12-13 12:00:50	59:28	7.42 pH	5.66 °C	852.96 µS/cm	6.65 mg/L	22.02 NTU	-136.3 mV	24.04 ft	140.00 ml/min
2016-12-13 12:03:50	01:02:29	7.42 pH	5.84 °C	853.16 µS/cm	6.56 mg/L	20.72 NTU	-135.6 mV	24.04 ft	140.00 ml/min

Low-Flow Test Report:

Test Date / Time: 2016-12-13 15:25:14
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: MW-EPA-1 **Latitude: 39.23527** **Longitude: -84.43979** **Well Diameter: 2 IN** **Casing Type: SS** **Screen Length:** **Top of Screen:** **Total Depth: 16.4 FT** **Initial Depth to Water: 11.19 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 14 FT** **Estimated Total Volume Pumped: 5065.667 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 130 ML_PER_MIN** **Final Draw Down: 0.2 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
Parsons
Former ROH Cincinnati Plant
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-13 15:25:14	00:00	6.85 pH	5.83 °C	16,469 µS/cm	0.12 mg/L	52.68 NTU	-110.8 mV	11.19 ft	130.00 ml/min
2016-12-13 15:28:14	03:00	6.81 pH	5.92 °C	16,428 µS/cm	0.07 mg/L	18.04 NTU	-114.3 mV	11.19 ft	130.00 ml/min
2016-12-13 15:31:13	05:59	6.81 pH	5.95 °C	16,369 µS/cm	0.03 mg/L	14.53 NTU	-115.8 mV	11.19 ft	130.00 ml/min
2016-12-13 15:34:13	08:59	6.81 pH	6.01 °C	16,356 µS/cm	0.01 mg/L	15.10 NTU	-117.8 mV	11.19 ft	130.00 ml/min
2016-12-13 15:37:12	11:58	6.81 pH	6.09 °C	16,330 µS/cm	0.00 mg/L	15.83 NTU	-118.0 mV	11.19 ft	130.00 ml/min
2016-12-13 15:40:12	14:58	6.81 pH	6.07 °C	16,292 µS/cm	0.00 mg/L	15.42 NTU	-119.0 mV	11.19 ft	130.00 ml/min
2016-12-13 15:43:12	17:58	6.81 pH	6.05 °C	16,295 µS/cm	-0.01 mg/L	13.94 NTU	-119.6 mV	11.19 ft	130.00 ml/min
2016-12-13 15:46:12	20:58	6.81 pH	6.11 °C	16,287 µS/cm	-0.01 mg/L	14.19 NTU	-120.4 mV	11.19 ft	130.00 ml/min
2016-12-13 15:49:12	23:58	6.81 pH	6.14 °C	16,258 µS/cm	-0.02 mg/L	13.19 NTU	-121.1 mV	11.19 ft	130.00 ml/min
2016-12-13 15:52:12	26:58	6.81 pH	6.09 °C	16,239 µS/cm	-0.02 mg/L	13.52 NTU	-121.5 mV	11.19 ft	130.00 ml/min
2016-12-13 15:55:12	29:58	6.81 pH	6.08 °C	16,224 µS/cm	-0.02 mg/L	12.38 NTU	-122.1 mV	11.19 ft	130.00 ml/min
2016-12-13 15:58:12	32:58	6.81 pH	6.06 °C	16,212 µS/cm	-0.02 mg/L	14.80 NTU	-122.4 mV	11.19 ft	130.00 ml/min

2016-12-13 16:01:12	35:58	6.81 pH	6.10 °C	16,211 µS/cm	-0.02 mg/L	12.56 NTU	-123.4 mV	11.19 ft	130.00 ml/min
2016-12-13 16:04:12	38:58	6.81 pH	6.10 °C	16,169 µS/cm	-0.03 mg/L	15.62 NTU	-123.4 mV	11.19 ft	130.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2016-12-14 10:48:53
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW17-40 **Latitude: 39.2333** **Longitude: -84.43702** **Well Diameter: 4 IN** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 41.4 FT** **Initial Depth to Water: 12.64 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 36 FT** **Estimated Total Volume Pumped: 21137.502 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 150 ML_PER_MIN** **Final Draw Down: 0.1 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
Parsons
Former ROH Cincinnati Plant
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-14 10:48:53	00:00	7.57 pH	11.84 °C	677.57 µS/cm	0.31 mg/L	284.79 NTU	-74.8 mV	12.64 ft	150.00 ml/min
2016-12-14 10:51:53	02:59	7.52 pH	11.83 °C	676.37 µS/cm	0.30 mg/L	340.18 NTU	-75.6 mV	12.64 ft	150.00 ml/min
2016-12-14 10:54:53	05:59	7.51 pH	11.73 °C	680.16 µS/cm	0.29 mg/L	326.37 NTU	-76.5 mV	12.64 ft	150.00 ml/min
2016-12-14 10:57:52	08:59	7.52 pH	11.17 °C	682.19 µS/cm	0.30 mg/L	274.79 NTU	-76.4 mV	12.64 ft	150.00 ml/min
2016-12-14 11:00:52	11:59	7.53 pH	10.75 °C	672.20 µS/cm	0.92 mg/L	142.61 NTU	-68.0 mV	12.64 ft	150.00 ml/min
2016-12-14 11:03:52	14:58	7.53 pH	10.44 °C	673.94 µS/cm	0.55 mg/L	136.43 NTU	-68.9 mV	12.64 ft	150.00 ml/min
2016-12-14 11:06:52	17:58	7.52 pH	10.35 °C	682.10 µS/cm	0.41 mg/L	118.92 NTU	-70.5 mV	12.64 ft	150.00 ml/min
2016-12-14 11:09:52	20:59	7.52 pH	10.22 °C	681.43 µS/cm	0.35 mg/L	127.78 NTU	-71.5 mV	12.64 ft	150.00 ml/min
2016-12-14 11:12:52	23:58	7.51 pH	11.13 °C	689.53 µS/cm	0.31 mg/L	104.74 NTU	-74.0 mV	12.64 ft	150.00 ml/min
2016-12-14 11:15:52	26:58	7.52 pH	11.22 °C	684.29 µS/cm	0.27 mg/L	95.44 NTU	-76.4 mV	12.64 ft	150.00 ml/min
2016-12-14 11:18:52	29:58	7.52 pH	11.42 °C	686.08 µS/cm	0.26 mg/L	100.59 NTU	-78.1 mV	12.64 ft	150.00 ml/min
2016-12-14 11:21:52	32:58	7.53 pH	11.41 °C	683.70 µS/cm	0.24 mg/L	76.98 NTU	-79.6 mV	12.64 ft	150.00 ml/min

2016-12-14 11:24:52	35:58	7.53 pH	11.16 °C	685.92 µS/cm	0.24 mg/L	73.69 NTU	-80.3 mV	12.64 ft	150.00 ml/min
2016-12-14 11:27:51	38:58	7.53 pH	11.21 °C	683.13 µS/cm	0.22 mg/L	70.40 NTU	-80.7 mV	12.64 ft	150.00 ml/min
2016-12-14 11:30:51	41:58	7.53 pH	11.17 °C	682.75 µS/cm	0.21 mg/L	66.50 NTU	-81.4 mV	12.64 ft	150.00 ml/min
2016-12-14 11:33:51	44:58	7.53 pH	11.19 °C	682.27 µS/cm	0.21 mg/L	67.56 NTU	-81.6 mV	12.64 ft	150.00 ml/min
2016-12-14 11:36:51	47:57	7.53 pH	11.24 °C	685.44 µS/cm	0.21 mg/L	60.66 NTU	-82.1 mV	12.64 ft	150.00 ml/min
2016-12-14 11:39:51	50:57	7.53 pH	11.28 °C	682.35 µS/cm	0.19 mg/L	53.57 NTU	-82.7 mV	12.64 ft	150.00 ml/min
2016-12-14 11:42:50	53:56	7.53 pH	11.38 °C	686.61 µS/cm	0.19 mg/L	50.47 NTU	-83.3 mV	12.64 ft	150.00 ml/min
2016-12-14 11:45:50	56:56	7.54 pH	11.45 °C	683.95 µS/cm	0.18 mg/L	56.25 NTU	-83.7 mV	12.64 ft	150.00 ml/min
2016-12-14 11:48:50	59:56	7.55 pH	11.31 °C	684.08 µS/cm	0.18 mg/L	73.37 NTU	-84.0 mV	12.64 ft	150.00 ml/min
2016-12-14 11:51:50	01:02:56	7.54 pH	11.33 °C	687.09 µS/cm	0.18 mg/L	45.76 NTU	-84.3 mV	12.64 ft	150.00 ml/min
2016-12-14 11:54:50	01:05:56	7.54 pH	10.22 °C	687.25 µS/cm	0.17 mg/L	42.55 NTU	-83.4 mV	12.64 ft	150.00 ml/min
2016-12-14 11:57:50	01:08:56	7.54 pH	9.64 °C	690.40 µS/cm	0.18 mg/L	23.24 NTU	-81.4 mV	12.64 ft	150.00 ml/min
2016-12-14 12:00:50	01:11:57	7.54 pH	9.15 °C	701.73 µS/cm	0.20 mg/L	23.51 NTU	-79.8 mV	12.64 ft	150.00 ml/min
2016-12-14 12:03:50	01:14:57	7.49 pH	8.59 °C	864.60 µS/cm	0.37 mg/L	70.80 NTU	-72.8 mV	12.64 ft	150.00 ml/min
2016-12-14 12:06:50	01:17:57	7.48 pH	8.84 °C	877.65 µS/cm	0.39 mg/L	44.27 NTU	-71.6 mV	12.64 ft	150.00 ml/min
2016-12-14 12:09:50	01:20:56	7.46 pH	10.53 °C	918.54 µS/cm	0.39 mg/L	43.62 NTU	-71.8 mV	12.64 ft	150.00 ml/min
2016-12-14 12:12:50	01:23:56	7.45 pH	12.82 °C	930.83 µS/cm	0.45 mg/L	33.21 NTU	-72.5 mV	12.64 ft	150.00 ml/min
2016-12-14 12:15:50	01:26:56	7.49 pH	13.89 °C	919.90 µS/cm	0.55 mg/L	29.73 NTU	-72.0 mV	12.64 ft	150.00 ml/min
2016-12-14 12:18:50	01:29:56	7.51 pH	14.11 °C	914.89 µS/cm	0.65 mg/L	23.01 NTU	-70.5 mV	12.64 ft	150.00 ml/min
2016-12-14 12:21:50	01:32:56	7.53 pH	14.03 °C	909.26 µS/cm	0.69 mg/L	21.09 NTU	-69.4 mV	12.64 ft	150.00 ml/min
2016-12-14 12:24:50	01:35:56	7.53 pH	13.89 °C	902.69 µS/cm	0.69 mg/L	16.88 NTU	-70.1 mV	12.64 ft	150.00 ml/min
2016-12-14 12:27:50	01:38:56	7.53 pH	13.80 °C	898.32 µS/cm	0.69 mg/L	21.10 NTU	-69.5 mV	12.64 ft	150.00 ml/min
2016-12-14 12:30:50	01:41:56	7.53 pH	13.76 °C	898.76 µS/cm	0.67 mg/L	24.70 NTU	-68.1 mV	12.64 ft	150.00 ml/min
2016-12-14 12:33:50	01:44:56	7.52 pH	13.76 °C	900.41 µS/cm	0.66 mg/L	26.93 NTU	-66.9 mV	12.64 ft	150.00 ml/min
2016-12-14 12:36:50	01:47:56	7.50 pH	13.78 °C	901.44 µS/cm	0.65 mg/L	26.54 NTU	-65.8 mV	12.64 ft	150.00 ml/min
2016-12-14 12:39:50	01:50:56	7.49 pH	13.81 °C	902.07 µS/cm	0.65 mg/L	27.04 NTU	-64.8 mV	12.64 ft	150.00 ml/min
2016-12-14 12:42:50	01:53:57	7.48 pH	13.83 °C	902.60 µS/cm	0.66 mg/L	29.42 NTU	-63.7 mV	12.64 ft	150.00 ml/min
2016-12-14 12:45:50	01:56:57	7.46 pH	13.80 °C	904.58 µS/cm	0.66 mg/L	30.88 NTU	-62.6 mV	12.64 ft	150.00 ml/min
2016-12-14 12:48:50	01:59:56	7.44 pH	13.61 °C	914.03 µS/cm	0.60 mg/L	33.26 NTU	-61.4 mV	12.64 ft	150.00 ml/min

2016-12-14 12:51:49	02:02:55	7.44 pH	14.29 °C	931.85 µS/cm	0.55 mg/L	17.78 NTU	-61.7 mV	12.64 ft	150.00 ml/min
2016-12-14 12:54:49	02:05:55	7.42 pH	16.11 °C	943.04 µS/cm	0.66 mg/L	25.62 NTU	-61.1 mV	12.64 ft	150.00 ml/min
2016-12-14 12:57:48	02:08:55	7.42 pH	16.82 °C	957.78 µS/cm	0.80 mg/L	44.97 NTU	-59.5 mV	12.64 ft	150.00 ml/min
2016-12-14 13:00:48	02:11:54	7.40 pH	17.28 °C	974.84 µS/cm	0.89 mg/L	26.06 NTU	-57.2 mV	12.64 ft	150.00 ml/min
2016-12-14 13:03:48	02:14:54	7.39 pH	17.42 °C	971.52 µS/cm	0.92 mg/L	25.39 NTU	-55.4 mV	12.64 ft	150.00 ml/min
2016-12-14 13:06:48	02:17:55	7.43 pH	15.58 °C	1,069.4 µS/cm	2.06 mg/L	339.05 NTU	-46.3 mV	12.64 ft	150.00 ml/min
2016-12-14 13:09:48	02:20:55	7.32 pH	10.41 °C	1,486.8 µS/cm	3.16 mg/L	3.09 NTU	-13.9 mV	12.64 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2016-12-14 13:14:21
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW20-60 **Latitude: 39.2352** **Longitude: -84.43705** **Well Diameter: 4 CM** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 61.4 M** **Initial Depth to Water: 36.83 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 56 FT** **Estimated Total Volume Pumped: 6596.333 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 110 ML_PER_MIN** **Final Draw Down: 0.2 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-14 13:14:21	00:00	7.39 pH	8.87 °C	1,614.7 µS/cm	2.53 mg/L	0.88 NTU	5.8 mV	36.83 ft	110.00 ml/min
2016-12-14 13:17:21	03:00	7.21 pH	8.76 °C	1,637.4 µS/cm	1.91 mg/L	1.42 NTU	10.6 mV	36.83 ft	110.00 ml/min
2016-12-14 13:20:21	06:00	7.19 pH	8.53 °C	1,642.5 µS/cm	1.44 mg/L	1.93 NTU	13.5 mV	36.83 ft	110.00 ml/min
2016-12-14 13:23:21	09:00	7.16 pH	8.92 °C	1,661.2 µS/cm	1.12 mg/L	1.60 NTU	15.0 mV	36.83 ft	110.00 ml/min
2016-12-14 13:26:21	12:00	7.15 pH	9.10 °C	1,669.0 µS/cm	0.86 mg/L	12.13 NTU	15.8 mV	36.83 ft	110.00 ml/min
2016-12-14 13:29:21	15:00	7.15 pH	9.28 °C	1,683.0 µS/cm	0.69 mg/L	1.97 NTU	16.2 mV	36.83 ft	110.00 ml/min
2016-12-14 13:32:21	18:00	7.14 pH	9.49 °C	1,676.0 µS/cm	0.59 mg/L	5.75 NTU	16.5 mV	36.83 ft	110.00 ml/min
2016-12-14 13:35:21	21:00	7.14 pH	9.77 °C	1,686.6 µS/cm	0.52 mg/L	1.85 NTU	16.7 mV	36.83 ft	110.00 ml/min
2016-12-14 13:38:21	23:59	7.14 pH	9.69 °C	1,696.7 µS/cm	0.47 mg/L	2.11 NTU	16.9 mV	36.83 ft	110.00 ml/min
2016-12-14 13:41:20	26:59	7.14 pH	9.59 °C	1,694.2 µS/cm	0.43 mg/L	6.19 NTU	17.1 mV	36.83 ft	110.00 ml/min
2016-12-14 13:44:20	29:58	7.14 pH	9.73 °C	1,697.9 µS/cm	0.40 mg/L	4.28 NTU	17.3 mV	36.83 ft	110.00 ml/min
2016-12-14 13:47:19	32:58	7.15 pH	9.60 °C	1,705.7 µS/cm	0.38 mg/L	2.25 NTU	17.5 mV	36.83 ft	110.00 ml/min

2016-12-14 13:50:19	35:58	7.14 pH	9.77 °C	1,703.4 µS/cm	0.36 mg/L	1.50 NTU	17.5 mV	36.83 ft	110.00 ml/min
2016-12-14 13:53:19	38:58	7.14 pH	9.65 °C	1,709.0 µS/cm	0.34 mg/L	2.36 NTU	17.6 mV	36.83 ft	110.00 ml/min
2016-12-14 13:56:19	41:58	7.14 pH	9.60 °C	1,717.5 µS/cm	0.33 mg/L	2.06 NTU	17.7 mV	36.83 ft	110.00 ml/min
2016-12-14 13:59:19	44:58	7.14 pH	9.54 °C	1,726.1 µS/cm	0.32 mg/L	2.04 NTU	18.0 mV	36.83 ft	110.00 ml/min
2016-12-14 14:02:19	47:57	7.14 pH	9.35 °C	1,726.1 µS/cm	0.31 mg/L	3.14 NTU	18.3 mV	36.83 ft	110.00 ml/min
2016-12-14 14:05:19	50:57	7.14 pH	9.54 °C	1,744.8 µS/cm	0.30 mg/L	1.93 NTU	18.4 mV	36.83 ft	110.00 ml/min
2016-12-14 14:08:19	53:58	7.13 pH	9.66 °C	1,741.9 µS/cm	0.30 mg/L	0.60 NTU	18.6 mV	36.83 ft	110.00 ml/min
2016-12-14 14:11:19	56:57	7.14 pH	9.22 °C	1,728.2 µS/cm	0.29 mg/L	1.19 NTU	18.9 mV	36.83 ft	110.00 ml/min
2016-12-14 14:14:19	59:57	7.14 pH	9.15 °C	1,736.0 µS/cm	0.28 mg/L	0.67 NTU	19.3 mV	36.83 ft	110.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2016-12-08 08:58:12
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW26-70 **Latitude: 39.23411** **Longitude: -84.43897** **Well Diameter: 4 CM** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 77.1 M** **Initial Depth to Water: 21.34 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 72 FT** **Estimated Total Volume Pumped: 8813 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 140 ML_PER_MIN** **Final Draw Down: 0 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-08 08:58:12	00:00	7.32 pH	7.82 °C	1,102.6 µS/cm	1.61 mg/L	12.14 NTU	-40.7 mV	21.34 ft	140.00 ml/min
2016-12-08 09:01:12	02:59	7.33 pH	7.29 °C	1,096.9 µS/cm	1.38 mg/L	7.98 NTU	-45.1 mV	21.34 ft	140.00 ml/min
2016-12-08 09:04:12	05:59	7.32 pH	7.46 °C	1,103.8 µS/cm	1.18 mg/L	7.82 NTU	-46.8 mV	21.34 ft	140.00 ml/min
2016-12-08 09:07:12	08:59	7.32 pH	7.56 °C	1,093.8 µS/cm	1.05 mg/L	8.49 NTU	-48.4 mV	21.34 ft	140.00 ml/min
2016-12-08 09:10:12	11:59	7.33 pH	7.50 °C	1,080.0 µS/cm	0.97 mg/L	9.83 NTU	-49.5 mV	21.34 ft	140.00 ml/min
2016-12-08 09:13:12	14:59	7.32 pH	8.16 °C	1,078.7 µS/cm	0.89 mg/L	9.21 NTU	-51.2 mV	21.34 ft	140.00 ml/min
2016-12-08 09:16:11	17:59	7.33 pH	7.97 °C	1,059.5 µS/cm	0.83 mg/L	8.11 NTU	-52.3 mV	21.34 ft	140.00 ml/min
2016-12-08 09:19:11	20:58	7.33 pH	8.34 °C	1,086.6 µS/cm	0.77 mg/L	6.91 NTU	-53.1 mV	21.34 ft	140.00 ml/min
2016-12-08 09:22:11	23:58	7.33 pH	8.65 °C	1,072.2 µS/cm	0.74 mg/L	10.04 NTU	-54.0 mV	21.34 ft	140.00 ml/min
2016-12-08 09:25:11	26:58	7.33 pH	8.71 °C	1,067.7 µS/cm	0.71 mg/L	6.73 NTU	-54.7 mV	21.34 ft	140.00 ml/min
2016-12-08 09:28:11	29:58	7.33 pH	9.18 °C	1,051.1 µS/cm	0.67 mg/L	7.85 NTU	-55.7 mV	21.34 ft	140.00 ml/min
2016-12-08 09:31:11	32:58	7.33 pH	9.43 °C	1,040.5 µS/cm	0.64 mg/L	6.47 NTU	-56.4 mV	21.34 ft	140.00 ml/min

2016-12-08 09:34:10	35:58	7.33 pH	9.81 °C	1,020.8 µS/cm	0.61 mg/L	6.79 NTU	-57.4 mV	21.34 ft	140.00 ml/min
2016-12-08 09:37:10	38:58	7.33 pH	10.11 °C	991.25 µS/cm	0.58 mg/L	5.91 NTU	-58.1 mV	21.34 ft	140.00 ml/min
2016-12-08 09:40:10	41:57	7.33 pH	10.26 °C	941.18 µS/cm	0.55 mg/L	7.13 NTU	-59.0 mV	21.34 ft	140.00 ml/min
2016-12-08 09:43:10	44:57	7.34 pH	9.88 °C	925.93 µS/cm	0.53 mg/L	11.49 NTU	-58.9 mV	21.34 ft	140.00 ml/min
2016-12-08 09:46:10	47:57	7.33 pH	9.76 °C	925.44 µS/cm	0.50 mg/L	5.24 NTU	-58.5 mV	21.34 ft	140.00 ml/min
2016-12-08 09:49:10	50:57	7.33 pH	10.13 °C	840.70 µS/cm	0.48 mg/L	6.21 NTU	-58.9 mV	21.34 ft	140.00 ml/min
2016-12-08 09:52:09	53:57	7.34 pH	10.27 °C	1,067.8 µS/cm	0.46 mg/L	3.05 NTU	-60.1 mV	21.34 ft	140.00 ml/min
2016-12-08 09:55:09	56:57	7.34 pH	10.53 °C	1,046.6 µS/cm	0.44 mg/L	3.73 NTU	-60.4 mV	21.34 ft	140.00 ml/min
2016-12-08 09:58:09	59:56	7.33 pH	10.18 °C	1,084.0 µS/cm	0.44 mg/L	10.88 NTU	-59.4 mV	21.34 ft	140.00 ml/min
2016-12-08 10:01:09	01:02:56	7.34 pH	10.11 °C	1,076.2 µS/cm	0.35 mg/L	5.66 NTU	-60.1 mV	21.34 ft	140.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2016-12-14 16:01:12
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW10-50 **Latitude: 39.23552** **Longitude: -84.43706** **Well Diameter: 4 IN** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 55.7 FT** **Initial Depth to Water: 38.35 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 50 FT** **Estimated Total Volume Pumped: 4639.999 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 150 ML_PER_MIN** **Final Draw Down: 0.3 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-14 16:01:12	00:00	7.44 pH	10.24 °C	945.46 µS/cm	2.81 mg/L	12.93 NTU	33.2 mV	38.35 ft	150.00 ml/min
2016-12-14 16:02:10	00:57	7.35 pH	9.80 °C	942.14 µS/cm	2.42 mg/L	12.79 NTU	35.3 mV	38.35 ft	150.00 ml/min
2016-12-14 16:05:10	03:57	7.15 pH	9.06 °C	951.66 µS/cm	2.04 mg/L	11.13 NTU	41.2 mV	38.35 ft	150.00 ml/min
2016-12-14 16:08:09	06:56	7.10 pH	8.47 °C	957.00 µS/cm	1.86 mg/L	10.78 NTU	45.7 mV	38.35 ft	150.00 ml/min
2016-12-14 16:11:09	09:56	7.03 pH	8.40 °C	977.23 µS/cm	1.76 mg/L	8.33 NTU	49.0 mV	38.35 ft	150.00 ml/min
2016-12-14 16:14:09	12:56	7.00 pH	8.04 °C	996.64 µS/cm	1.64 mg/L	7.88 NTU	52.1 mV	38.35 ft	150.00 ml/min
2016-12-14 16:17:09	15:56	6.97 pH	7.76 °C	1,017.7 µS/cm	1.50 mg/L	8.12 NTU	54.6 mV	38.35 ft	150.00 ml/min
2016-12-14 16:20:09	18:56	6.95 pH	7.52 °C	1,053.4 µS/cm	1.37 mg/L	8.64 NTU	56.7 mV	38.35 ft	150.00 ml/min
2016-12-14 16:23:08	21:55	6.93 pH	7.52 °C	1,080.0 µS/cm	1.24 mg/L	10.55 NTU	58.4 mV	38.35 ft	150.00 ml/min
2016-12-14 16:26:08	24:55	6.93 pH	7.12 °C	1,099.3 µS/cm	1.11 mg/L	10.24 NTU	60.1 mV	38.35 ft	150.00 ml/min
2016-12-14 16:29:08	27:55	6.92 pH	6.86 °C	1,122.5 µS/cm	1.04 mg/L	11.44 NTU	61.1 mV	38.35 ft	150.00 ml/min
2016-12-14 16:32:08	30:55	6.92 pH	6.53 °C	1,141.2 µS/cm	0.94 mg/L	9.97 NTU	62.4 mV	38.35 ft	150.00 ml/min

Low-Flow Test Report:

Test Date / Time: 2016-12-14 17:16:37
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW22-20 **Latitude:** **Longitude:** **Well Diameter: 4 IN** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 19.4 FT** **Initial Depth to Water: 13 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 16 FT** **Estimated Total Volume Pumped: 1800 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 120 ML_PER_MIN** **Final Draw Down: 0 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-14 17:16:37	00:00	6.89 pH	12.83 °C	5,591.7 µS/cm	0.68 mg/L	486.03 NTU	-56.9 mV	13.00 ft	120.00 ml/min
2016-12-14 17:19:37	02:59	6.82 pH	12.99 °C	5,544.2 µS/cm	0.40 mg/L	391.11 NTU	-68.0 mV	13.00 ft	120.00 ml/min
2016-12-14 17:22:37	05:59	6.83 pH	12.91 °C	5,490.9 µS/cm	0.31 mg/L	363.17 NTU	-74.8 mV	13.00 ft	120.00 ml/min
2016-12-14 17:25:37	08:59	6.83 pH	12.57 °C	5,502.7 µS/cm	0.27 mg/L	281.76 NTU	-79.3 mV	13.00 ft	120.00 ml/min
2016-12-14 17:28:37	11:59	6.84 pH	12.54 °C	5,468.8 µS/cm	0.23 mg/L	261.86 NTU	-82.4 mV	13.00 ft	120.00 ml/min
2016-12-14 17:31:37	15:00	6.83 pH	12.60 °C	5,516.4 µS/cm	0.20 mg/L	216.58 NTU	-85.1 mV	13.00 ft	120.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2016-12-15 09:48:52
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW24-70 **Latitude: 39.23444** **Longitude: -84.43706** **Well Diameter: 4 IN** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 72.7 FT** **Initial Depth to Water: 32.75 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 68 FT** **Estimated Total Volume Pumped: 8985 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 150 ML_PER_MIN** **Final Draw Down: 0.1 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-15 09:48:52	00:00	7.63 pH	12.34 °C	762.09 µS/cm	2.35 mg/L	30.46 NTU	-35.6 mV	32.75 ft	150.00 ml/min
2016-12-15 09:51:52	03:00	7.53 pH	11.39 °C	719.41 µS/cm	1.41 mg/L	3.39 NTU	-37.6 mV	32.75 ft	150.00 ml/min
2016-12-15 09:54:52	05:59	7.49 pH	11.08 °C	720.19 µS/cm	1.10 mg/L	3.47 NTU	-38.7 mV	32.75 ft	150.00 ml/min
2016-12-15 09:57:52	08:59	7.47 pH	10.57 °C	716.61 µS/cm	0.94 mg/L	4.56 NTU	-39.1 mV	32.75 ft	150.00 ml/min
2016-12-15 10:00:51	11:59	7.44 pH	10.75 °C	721.92 µS/cm	0.84 mg/L	4.22 NTU	-39.8 mV	32.75 ft	150.00 ml/min
2016-12-15 10:03:51	14:59	7.44 pH	10.52 °C	723.22 µS/cm	0.76 mg/L	3.57 NTU	-40.2 mV	32.75 ft	150.00 ml/min
2016-12-15 10:06:51	17:59	7.43 pH	10.71 °C	722.25 µS/cm	0.70 mg/L	4.12 NTU	-40.8 mV	32.75 ft	150.00 ml/min
2016-12-15 10:09:51	20:58	7.42 pH	10.76 °C	722.50 µS/cm	0.66 mg/L	4.78 NTU	-41.5 mV	32.75 ft	150.00 ml/min
2016-12-15 10:12:51	23:58	7.42 pH	10.38 °C	722.52 µS/cm	0.61 mg/L	2.96 NTU	-41.7 mV	32.75 ft	150.00 ml/min
2016-12-15 10:15:50	26:58	7.42 pH	10.44 °C	725.41 µS/cm	0.59 mg/L	7.07 NTU	-42.1 mV	32.75 ft	150.00 ml/min
2016-12-15 10:18:50	29:57	7.42 pH	10.38 °C	723.48 µS/cm	0.56 mg/L	3.94 NTU	-42.4 mV	32.75 ft	150.00 ml/min
2016-12-15 10:21:50	32:57	7.42 pH	10.19 °C	727.51 µS/cm	0.54 mg/L	5.58 NTU	-42.6 mV	32.75 ft	150.00 ml/min

2016-12-15 10:24:49	35:57	7.42 pH	10.11 °C	727.18 µS/cm	0.52 mg/L	4.17 NTU	-42.9 mV	32.75 ft	150.00 ml/min
2016-12-15 10:27:49	38:57	7.42 pH	10.14 °C	728.70 µS/cm	0.51 mg/L	5.48 NTU	-43.3 mV	32.75 ft	150.00 ml/min
2016-12-15 10:30:49	41:56	7.42 pH	10.37 °C	729.05 µS/cm	0.49 mg/L	5.04 NTU	-43.9 mV	32.75 ft	150.00 ml/min
2016-12-15 10:33:48	44:56	7.42 pH	10.90 °C	734.12 µS/cm	0.48 mg/L	5.37 NTU	-44.9 mV	32.75 ft	150.00 ml/min
2016-12-15 10:36:48	47:55	7.43 pH	10.66 °C	730.87 µS/cm	0.46 mg/L	4.96 NTU	-45.5 mV	32.75 ft	150.00 ml/min
2016-12-15 10:39:47	50:54	7.44 pH	10.62 °C	726.45 µS/cm	0.44 mg/L	4.89 NTU	-46.0 mV	32.75 ft	150.00 ml/min
2016-12-15 10:42:47	53:54	7.44 pH	10.72 °C	729.27 µS/cm	0.44 mg/L	4.69 NTU	-46.6 mV	32.75 ft	150.00 ml/min
2016-12-15 10:45:46	56:54	7.44 pH	11.09 °C	730.10 µS/cm	0.43 mg/L	5.27 NTU	-47.2 mV	32.75 ft	150.00 ml/min
2016-12-15 10:48:46	59:53	7.48 pH	9.68 °C	711.11 µS/cm	0.42 mg/L	17.36 NTU	-46.4 mV	32.75 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2016-12-15 13:53:32
Project: 2016 Groundwater Sampling
Operator Name: Mt

Location Name: UAW10-80 **Latitude:** **Longitude:** **Well Diameter: 4 IN** **Casing Type: Pvc** **Screen Length:** **Top of Screen:** **Total Depth: 82.5 FT** **Initial Depth to Water: 39.5 FT**	**Pump Type: QED Teflon Bladder** **Tubing Type: Teflon Discharge** **Tubing Inner Diameter:** **Tubing Length:** **Pump Intake From TOC: 77 FT** **Estimated Total Volume Pumped: 7799.999 ML** **Flow Cell Volume: 130 ML** **Final Flow Rate: 130 ML_PER_MIN** **Final Draw Down: 0.2 FT**	**Instrument Used: AquaTROLL 600** **Serial Number: 447417**

Test Notes:
Parsons
Former ROH Cincinnati Plant
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Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.5	+/- 3 %	+/- 10 %	+/- 3 %	+/- 3 %	+/- 5	
2016-12-15 13:53:32	00:00	9.04 pH	11.34 °C	150.97 µS/cm	1.83 mg/L	20.89 NTU	-60.6 mV	39.50 ft	130.00 ml/min
2016-12-15 13:56:32	03:00	9.17 pH	10.20 °C	142.31 µS/cm	1.18 mg/L	3.68 NTU	-70.5 mV	39.50 ft	130.00 ml/min
2016-12-15 13:59:32	05:59	9.18 pH	9.75 °C	143.18 µS/cm	0.93 mg/L	2.89 NTU	-75.3 mV	39.50 ft	130.00 ml/min
2016-12-15 14:02:32	09:00	9.18 pH	9.94 °C	143.07 µS/cm	0.77 mg/L	1.49 NTU	-78.3 mV	39.50 ft	130.00 ml/min
2016-12-15 14:05:32	12:00	9.21 pH	9.97 °C	143.98 µS/cm	0.67 mg/L	1.61 NTU	-81.9 mV	39.50 ft	130.00 ml/min
2016-12-15 14:08:32	14:59	9.25 pH	10.36 °C	142.31 µS/cm	0.58 mg/L	3.57 NTU	-83.7 mV	39.50 ft	130.00 ml/min
2016-12-15 14:11:32	17:59	9.32 pH	10.55 °C	141.07 µS/cm	0.49 mg/L	1.60 NTU	-86.1 mV	39.50 ft	130.00 ml/min
2016-12-15 14:14:32	20:59	9.36 pH	10.72 °C	139.41 µS/cm	0.43 mg/L	1.23 NTU	-86.9 mV	39.50 ft	130.00 ml/min
2016-12-15 14:17:32	23:59	9.40 pH	10.65 °C	138.67 µS/cm	0.39 mg/L	1.17 NTU	-87.9 mV	39.50 ft	130.00 ml/min
2016-12-15 14:20:32	26:59	9.43 pH	10.45 °C	137.47 µS/cm	0.36 mg/L	1.37 NTU	-87.8 mV	39.50 ft	130.00 ml/min
2016-12-15 14:23:32	29:59	9.46 pH	10.33 °C	137.08 µS/cm	0.34 mg/L	1.13 NTU	-88.5 mV	39.50 ft	130.00 ml/min
2016-12-15 14:26:32	32:59	9.45 pH	10.65 °C	137.67 µS/cm	0.33 mg/L	2.35 NTU	-88.5 mV	39.50 ft	130.00 ml/min

2016-12-15 14:29:32	35:59	9.49 pH	10.47 °C	135.93 µS/cm	0.32 mg/L	1.51 NTU	-89.0 mV	39.50 ft	130.00 ml/min
2016-12-15 14:32:32	39:00	9.50 pH	10.55 °C	136.54 µS/cm	0.31 mg/L	1.97 NTU	-88.9 mV	39.50 ft	130.00 ml/min
2016-12-15 14:35:32	41:59	9.52 pH	10.71 °C	136.48 µS/cm	0.30 mg/L	1.36 NTU	-89.6 mV	39.50 ft	130.00 ml/min
2016-12-15 14:38:32	45:00	9.53 pH	10.57 °C	135.98 µS/cm	0.29 mg/L	0.73 NTU	-89.4 mV	39.50 ft	130.00 ml/min
2016-12-15 14:41:32	48:00	9.55 pH	10.60 °C	135.96 µS/cm	0.29 mg/L	0.88 NTU	-90.0 mV	39.50 ft	130.00 ml/min
2016-12-15 14:44:32	51:00	9.55 pH	10.21 °C	135.85 µS/cm	0.28 mg/L	0.89 NTU	-90.1 mV	39.50 ft	130.00 ml/min
2016-12-15 14:47:32	53:59	9.56 pH	10.65 °C	136.28 µS/cm	0.28 mg/L	0.86 NTU	-90.6 mV	39.50 ft	130.00 ml/min
2016-12-15 14:50:32	57:00	9.56 pH	10.56 °C	136.33 µS/cm	0.28 mg/L	1.09 NTU	-90.9 mV	39.50 ft	130.00 ml/min
2016-12-15 14:53:32	59:59	9.57 pH	10.42 °C	135.84 µS/cm	0.27 mg/L	4.16 NTU	-91.4 mV	39.50 ft	130.00 ml/min

Samples

Sample ID:	Description:

PARSONS

Appendix B

Historic Groundwater Analytical Data Tables

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
MW-EPA-1	5/8/2001	<500	<50	<500	<50	1600	<50	<50	940	<120	160	<50	<50	<50	<25	<25	19 J	<50	<50	<50	<500	<50	<50	<50	<50	<50	<50	<100	30 J
	11/15/2001	63 J B	31 J	<830	<83	3200	<83	<83	1700	35 J	260	<83	<83	<83	<42	<42	40 J	<83	140 B	<83	<830	<83	59 J	<83	<83	<83	<83	<170	93
	10/20/2002	220 J	<100	NA	<100	3900	<100	NA	1900	NA	300 J	<100	<100	NA	NA	NA	<100	NA	100 B	<100	NA	NA	49 J	NA	NA	NA	NA	NA	<100
	11/12/2003	<2000	<200	<2000	<200	4500	<200	<200	1700	<500	<500	<200	<200	<200	<100	<100	<200	<200	<200	<200	<2000	<200	<200	<200	<200	<200	<200	<200	<200
	3/28/2004	<830	<83	<830	<83	2800	<83	<83	1300	<500	<500	<83	<83	<83	<42	<42	<83	<83	<83	<83	<830	<83	<83	<83	<83	<83	<83	<83	<83
	11/4/2004	310 J B	49 J B	<1000	<100	2500	<100	<100	1100	35 J	250 J	<100	<100	<100	<50	<50	28 J	<100	85 J B	<100	<1000	<100	<100	<100	<100	<100	<100	<100	130
	11/15/2005	<560	22 J	<560	<56	1800	<56	<56	1000	33 J	220	<56	<56	<56	<28	<28	26 J	<56	<56	<56	<560	<56	12 J	<56	<56	<56	<56	<56	41 J
	11/8/2006	< 1200	< 120	< 1200	< 120	4400	< 120	< 120	1000	46 J	330	< 120	< 120	< 120	< 62	< 62	< 120	< 120	< 120	< 120	< 1200	< 120	< 120	< 120	< 120	< 120	< 120	< 120	< 120
	11/19/2007	< 2500	< 250	< 2500	< 250	7600	< 250	< 250	790	57 J	400	< 250	< 250	< 250	< 120	< 120	< 250	< 250	< 250	< 250	< 2500	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
	11/6/2008	4100	< 200	< 2000	< 200	6600	< 200	< 200	480	49 J	330	< 200	< 200	< 200	< 100	< 100	< 200	< 200	< 730	< 200	< 2000	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
	11/20/2009	< 2500	< 250	< 2500	< 250	7400	< 250	< 250	590	58 J	430	< 250	< 250	< 250	< 120	< 120	< 250	< 250	< 250	< 250	< 2500	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
	11/19/2010	< 2000	< 200	< 2000	< 200	5400	< 200	< 200	300	43 J	270	< 200	< 200	< 200	< 100	< 100	< 200	< 200	< 200	< 200	< 2000	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200
	12/12/2012	< 170	19	< 170	< 17	5400	< 17	< 17	380	46	320	< 17	< 17	< 17	< 17	< 17	14 J	< 17	< 17	< 17	< 170	< 17	7.3 J	< 17	< 17	< 17	< 17	< 17	11 J
	12/13/2016	38000	<200	<2000	<200	5200	<200	<200	300	<200	330	<200	<200	<200	<200	<200	<200	<200	<200	<200	<2000	<200	<200	<200	<200	<200	<200	<200	<400
MW-EPA-2	5/8/2001	<10	<1	<10	<1	<1	1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	0.98 J	<1	<10	11	<1	<1	<1	<1	<1	<2	<1
	11/14/2001	2 J	<3.3	<33	<3.3	<3.3	0.81 J	<3.3	<10	<10	<10	<3.3	<3.3	<3.3	<1.7	<1.7	<3.3	<3.3	2 J B	<3.3	<33	45	<3.3	<3.3	<3.3	<3.3	<3.3	<6.7	<3.3
	10/20/2002	3.4 J	<2.2	NA	<2.2	<2.2	1.3 J	NA	<10	NA	<10	<2.2	<2.2	NA	NA	NA	<2.2	NA	1.1 J B	<2.2	NA	NA	<2.2	NA	NA	NA	NA	NA	<2.2
	11/11/2003	<25	<2.5	<25	<2.5	<2.5	<2.5	<2.5	<10	<10	<10	<2.5	<2.5	<2.5	<1.2	<1.2	<2.5	<2.5	<2.5	<2.5	<25	80	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
	3/29/2004	<20	<2	<20	<2	<2	<2	<2	<10	<10	<10	<2	<2	<2	<1	<1	<2	<2	<2	<2	<20	52	<2	<2	<2	<2	<2	<2	<2
	11/4/2004	9.2 J B	0.89 J B	<33	<3.3	<3.3	1.2 J	<3.3	<10	<10	<10	<3.3	<3.3	<3.3	<1.7	<1.7	<3.3	<3.3	2.4 J B	<3.3	<33	75	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3
	11/11/2005	2.0 U	<2	<20	<2	<2	1.0 J	<2	<2	<2	<2	<2	<2	<2	<1	<1	<2	<2	<2	<2	<20	62	<2	<2	<2	<2	<2	<2	<2
	11/9/2006	< 140	< 14	< 140	< 14	< 14	41	< 14	< 14	< 14	< 14	7.3 J	440	2.6 J	43	< 7.1	< 14	< 14	< 14	< 14	< 140	45	< 14	20	5 J	6 J	3.9 J	< 14	< 14
	11/19/2007	< 50	< 5	< 50	< 5	< 5	1 J	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2.5	< 2.5	< 5	< 5	< 5	< 5	< 50	79	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	11/17/2008	< 17	< 1.7	< 17	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 0.84	< 0.84	< 1.7	< 1.7	< 1.7	< 1.7	< 17	59	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
	11/23/2009	< 20	1.2 J	< 20	< 2	< 2	0.63 J	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 2	< 2	< 2	< 2	< 20	68	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	11/18/2010	< 20	< 2	< 20	< 2	< 2	2 U	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 2	< 2	< 2	< 2	< 20	65	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	12/10/2012	< 10	< 1	< 10	< 1	< 1	0.75 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	58	0.15 J	< 1	< 1	0.34 J	< 1	< 1	< 2
	12/14/2016	<10	<1	<10	<1	<1	0.77J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	56	<1	<1	<1	0.41 J	<1	<1	<2
MW-EPA-3	5/6/2001	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	11/13/2001	2.6 J	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	0.3 J	<1	<1	<1	<1	<2	<1
	10/17/2002	<10	<1	NA	<1	<1	<1	NA	<10	NA	<10	<1	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1
	11/13/2003	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	3/30/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/4/2004	1.9 J B	0.31 J B	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	0.21 J	<1	<1	<1	<1	<1	0.51 J
	11/11/2005	0.87 U	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/7/2006	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/14/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/11/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/23/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
	11/23/2010	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/7/2012	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
	12/14/2016	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
MW-EPA-4	5/8/2001	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	11/13/2001	2.5 J	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	0.2 J	<1	<1	<1	<2	<1
	10/18/2002	<10	<1	NA	<1	<1	<1	NA	<10	NA	<10	<1	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1
	11/16/2003	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	4/6/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/6/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/10/2005	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/7/2006	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/14/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/19/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/17/2010	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/3/2012	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
	12/8/2016	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
Recovery Well	7/29/2001	1600	<29	<290	<29	8.7 J	<29	NA	2.4 J	<10	<10	<29	<29	<29	<14	<14	<29	NA	<29	NA	<140	<29	<29	<29	<29	<29	NA	<57	<29
UAW01-30	5/4/2001	<10	<1	<10	<1	1.6	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	11/8/2001	<10	<1	<10	<1	0.5 J	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	10/17/2002	<10	<1	NA	<1	0.47 J	<1	NA	<10	NA	<10	<1	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1
	11/11/2003	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	3/24/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/3/2004	1.1 J	<1	<10	<1	0.23 J	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/8/2005	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/1/2006	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/8/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/5/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/12/2009	< 10	0.42 J	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/16/2010	< 10	< 1	< 10	< 1	< 1	< 1	< 1	0.33 J	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/29/2012	< 10	< 1	< 10	< 1	< 1	< 1	< 1	0.19 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
	12/6/2016	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW01-80	5/4/2001	<10	<1	<10	<1	<1	<1	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	1.4 J	<1
	10/10/2001	1.2 J B	<1	<10	<1	<1	<1	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	2.1	<1
	11/12/2001	<10	<1	<10	<1	<1	<1	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	0.23 J	<1	<1	<1	<1	1.9 J	<1
	10/17/2002	<10	<1	NA	<1	<1	<1	NA				<1	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1
	11/11/2003	<10	<1	<10	<1	<1	<1	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	2.5	<1
	3/24/2004	<10	<1	<10	<1	<1	<1	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	2.8	<1

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
	11/2/2004	0.82 J	<1	<10	<1	<1	<1	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	4	<1
	11/8/2005	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	4.4	<1
	11/1/2006	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	0.29 J	< 1	< 1	< 1	< 1	4.1	< 1
	11/8/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	4	< 1
	11/5/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	3.6	< 1
	11/12/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	6.8	< 1
	11/16/2010	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	6.1	< 1
	11/29/2012	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	5.7	< 2
	12/6/2016	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.3 J	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	2.9	<2
UAW02-20	5/7/2001	<10	0.49 J	<10	<1	32	<1	<1	12	<10	3.7 J	0.74 J	0.42 J	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	11/10/2001	<10	0.6 J	<10	<1	32	<1	<1	12	<10	4.1 J	0.21 J	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	0.45 J	<1	<1	<1	<1	<2	<1
	10/17/2002	<10	0.37 J	NA	<1	17	<1	NA	5.1 J	NA	1.7 J	<1	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	0.39 J	NA	NA	NA	NA	NA	<1
	11/12/2003	<10	<1	<10	<1	13	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	3/26/2004	<10	<1	<10	<1	12	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/3/2004	0.91 J	<1	<10	<1	10	<1	0.44 J	10	<10	3.8 J	<1	<1	<1	<0.5	<0.5	<1	0.59 J	<1	0.63 J B	<10	<1	<1	<1	<1	<1	<1	<1	0.56 J
	11/9/2005	<10	<1	<10	<1	17	<1	<1	15	0.61 J	6.1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/3/2006	< 10	< 1	< 10	< 1	5.3	< 1	< 1	7.2	0.27 J	2.9	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	0.17 J	< 1	< 1	< 1	< 1	< 1	< 1
	11/9/2007	< 10	< 1	< 10	< 1	1	< 1	< 1	2.6	< 1	1.1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/7/2008	< 10	< 1	< 10	< 1	4.5	< 1	< 1	12	0.49 J	4.4	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/12/2009	< 10	< 1	< 10	< 1	3.7	< 1	< 1	11	0.46 J	4.1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/12/2010	< 10	< 1	< 10	< 1	1.3	< 1	< 1	1.9	< 1	0.58 J	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/5/2012	< 10	< 1	< 10	< 1	5.4	< 1	< 1	13	0.62 J	4.1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	0.14 J	< 1	< 1	< 1	< 1	< 1	< 2
	12/7/2016	<10	<1	<10	<1	2.2	<1	<1	13	0.69 J	4.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW02-40	5/7/2001	<25	<2.5	<25	<2.5	<2.5	<2.5	<2.5				28	<2.5	4.3	62	3.3	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5
UAW02-40 Dup	5/7/2001	<12	0.47 J	<12	<1.2	31	<1.2	<1.2				0.67 J	0.44 J	<1.2	<0.62	<0.62	<1.2	<1.2	<1.2	<1.2	<12	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<2.5	<1.2
	11/10/2001	1.8 J B	<2.5	<25	<2.5	<2.5	<2.5	<2.5				27	<2.5	4.5	59	3.2	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	<2.5
	10/17/2002	<20	<2	NA	<2	<2	<2	NA				25	<2	NA	NA	NA	<2	NA	1.4 J B	<2	NA	NA	<2	NA	NA	NA	NA	NA	<2
	11/12/2003	<20	<2	<20	<2	<2	<2	<2				22	<2	4.4	50	2.9	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2
	3/26/2004	<20	<2	<20	<2	<2	<2	<2				20	<2	3.5	49	3.2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2
	11/3/2004	1.6 J	<1.7	<17	<1.7	<1.7	<1.7	<1.7				20	<1.7	3.9	48	2.5	<1.7	<1.7	4.9 B	<1.7	<17	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	0.78 J	<1.7
	11/9/2005	<17	<1.7	<17	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	15	<1.7	2.5	38	2.4	<1.7	<1.7	0.64 U	<1.7	<17	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	0.77 J	<1.7
	11/3/2006	< 12	< 1.2	< 12	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	14	< 1.2	3.2	37	2.1	< 1.2	< 1.2	< 1.2	< 1.2	< 12	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	0.56 J	< 1.2
UAW02-40 Dup	11/3/2006	< 14	< 1.4	< 14	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	14	< 1.4	3.1	37	2.2	< 1.4	< 1.4	< 1.4	< 1.4	< 14	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	0.56 J	< 1.4
	11/9/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	14	< 1	2.8	37	2.2	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	0.51 J	< 1
	11/18/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	14	< 1	3.4	35	2.6	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	0.67 J	< 1
	11/12/2009	< 10	0.46 J	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	12	< 1	2.9	30	2.2	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	0.44 J	< 1
UAW02-40 Dup	11/12/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	12	< 1	3.1	31	2.3	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	0.49 J	< 1
	11/12/2010	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	12	< 1	2.7	28	2.2	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	0.56 J	< 1
	12/5/2012	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	4.8	< 1	2.7	26	2.1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	1.4	< 2

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
UAW02-40 Dup	12/5/2012	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	4.6	< 1	2.6	25	1.9	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	1.3	< 2
	12/7/2016	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	4.7	<1	2.6	21	<1	<1	<1	<1	<1	<10	0.36 J	<1	<1	<1	<1	<1	6	<2
UAW02-40 Dup	12/7/2016	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	4.7	<1	2.6	20	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	5.8	<2
UAW03-20	5/7/2001	3.4 J	1.2	<10	1.5	8.6	<1	<1	19	<10	3.3 J	0.84 J	14	<1	<0.5	<0.5	0.55 J	<1	<1	0.41 J	<10	<1	12	<1	<1	<1	<1	<2	2.5
	11/11/2001	3.8 J B	1.4 J	<25	<2.5	41	<2.5	0.73 J	140	3.5 J	19 J	<2.5	1.2 J	<2.5	<1.2	<1.2	1.6 J	0.34 J	1.3 J B	2.6	<25	<2.5	3.6	<2.5	<2.5	<2.5	<2.5	<5	4.5
	10/23/2002	12 J	<6.7	NA	<6.7	55	<6.7	NA	190	NA	27 J	<6.7	<6.7	NA	NA	NA	<6.7	NA	4.5 J	3.4 J	NA	NA	<6.7	NA	NA	NA	NA	NA	5.9 J
	11/12/2003	<100	<10	<100	<10	130	<10	<10	190	<100	<100	<10	<10	<10	<5	<5	<10	<10	<10	17	<100	<10	<10	<10	<10	<10	<10	<10	<10
	3/28/2004	<130	<13	<130	<13	150	<13	<13	360	<100	<100	<13	<13	<13	<6.7	<6.7	<13	<13	<13	<13	<130	<13	<13	<13	<13	<13	<13	<13	<13
	11/4/2004	23 J B	4 J B	<100	2.8 J	110	<10	<10	220	5 J	36 J	<10	<10	<10	<5	<5	<10	<10	8.6 J B	6.2 J	<100	<10	<10	<10	<10	<10	<10	<10	15
UAW03-20 Dup	11/4/2004	32 J B	4.7 J B	<120	<12	110	<12	<12	160	4 J	26 J	<12	<12	<12	<6.2	<6.2	3.9 J	<12	9.7 J B	<12	<120	<12	<12	<12	<12	<12	<12	<12	17
	11/9/2005	6.3 U	<4	<40	<4	46	<4	0.65 J	150	3.5 J	20	<4	<4	<4	<2	<2	1.4 J	<4	5.1 U	3.5 J	<40	<4	<4	<4	<4	<4	<4	<4	<4
	11/6/2006	< 10	< 1	< 10	< 1	0.45 J	< 1	< 1	0.45 J	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	1.2 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/13/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	0.22 J	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	0.61 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/4/2008	< 80	3.7 J	< 50	< 5	140	< 5	0.9 J	140	2.4 J	15	< 5	< 5	< 5	< 2.5	< 2.5	2.7 J	< 5	< 5	< 5	< 50	< 5	1.6 J	< 5	< 5	< 5	< 5	< 5	4.9 J
	11/16/2009	< 25	2.6	< 25	< 2.5	110	< 2.5	0.53 J	170	3.4	21	< 2.5	0.87 J	< 2.5	< 1.2	< 1.2	2.7	< 2.5	2.5 U	2 J	< 25	< 2.5	1.9 J	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	5.5
	11/18/2010	< 80	< 8	< 80	< 8	81	< 8	< 8	210	4.9 J	28	< 8	< 8	< 8	< 4	< 4	2.2 J	< 8	< 8	< 8	< 80	< 8	< 8	< 8	< 8	< 8	< 8	< 8	2.8 J
	11/30/2012	< 10	0.83 J	< 10	< 1	50	< 1	< 1	37	1.4	8.6	< 1	0.52 J	< 1	< 1	< 1	0.19 J	< 1	< 1	< 1	< 10	< 1	0.34 J	< 1	< 1	< 1	< 1	< 1	1 J
	12/7/2016	<10	0.77 J	<10	<1	14	<1	<1	8.1	<1	1.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW04-20	5/7/2001	<10000	<1000	<10000	<1000	<1000	<1000	<1000	<40	<40	<40	<1000	<1000	<1000	<500	<500	<1000	<1000	<1000	<1000	<10000	<1000	21000	<1000	<1000	<1000	<1000	<2000	<1000
	11/11/2001	590 J B	<250	<2500	<250	<250	<250	<250	<100	<100	<100	<250	<250	<250	<120	<120	<250	<250	200 J B	<250	<2500	<250	8800	<250	<250	<250	<250	<500	<250
	10/20/2002	1300 B	<33	NA	<33	<33	<33	NA	<120	NA	<120	<33	<33	NA	NA	NA	<33	NA	<33	<33	NA	NA	320	NA	NA	NA	NA	NA	<33
	11/12/2003	<1000	<100	<1000	<100	<100	<100	<100	<10	<10	<10	<100	<100	<100	<50	<50	<100	<100	<100	<100	<1000	<100	3500	<100	<100	<100	<100	<100	<100
	3/28/2004	<10000	<1000	<10000	<1000	<1000	<1000	<1000	<50	<50	<50	<1000	<1000	<1000	<500	<500	<1000	<1000	<1000	<1000	<10000	<1000	24000	<1000	<1000	<1000	<1000	<1000	<1000
	11/3/2004	980 J B	87 J B	<3300	<330	<330	<330	<330	3.8 J	<50	<50	<330	<330	<330	<170	<170	<330	<330	280 J B	<330	<3300	<330	11000	<330	<330	<330	<330	<330	200 J
	11/9/2005	<100	<10	<100	<10	2.0 J	<10	<10	<10	<10	<10	<10	<10	<10	<5	<5	<10	<10	16 U	<10	<100	<10	310	<10	<10	<10	<10	<10	6.6 J
	11/6/2006	< 1400	< 140	< 1400	< 140	< 140	< 140	< 140	< 140	< 140	< 140	< 140	< 140	< 140	< 71	< 71	< 140	< 140	< 140	< 140	< 1400	< 140	3900	< 140	< 140	< 140	< 140	< 140	< 140
UAW04-20 Dup	11/6/2006	< 1400	< 140	< 1400	< 140	< 140	< 140	< 140	< 140	< 140	< 140	< 140	< 140	< 140	< 71	< 71	< 140	< 140	< 140	< 140	< 1400	< 140	4000	< 140	< 140	< 140	< 140	< 140	< 140
	11/3/2008	< 10	0.88 J	< 10	< 1	3	< 1	< 1	2.6	< 1	0.74 J	0.29 J	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	0.56 J	< 1	< 1	< 1	< 1	< 1	< 1
	11/16/2009	< 10	0.33 J	< 10	< 1	3.6	< 1	< 1	3.3	0.15 J	0.9 J	0.48 J	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.58 J
	11/16/2010	1.1 J	< 1	< 10	< 1	5.7	< 1	< 1	5.9	0.22 J	1.5	0.44 J	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	0.23 J	< 1	< 1	< 1	< 1	< 1	< 1
	11/30/2012	3.8 J	< 1	< 10	< 1	6.8	< 1	< 1	6.3	0.24 J	1.7	0.19 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	0.27 J	< 1	< 1	< 1	< 1	< 1	< 2
	12/7/2016	<10	<1	<10	<1	1.7	<1	<1	<1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW05-20	5/6/2001	<400	<40	<400	<40	460	<40	<40	880	<100	120	<40	<40	<40	<20	<20	<40	<40	<40	<40	<400	<40	<40	<40	<40	<40	<40	<80	<40
	10/10/2001	22 J B	<40	<400	<40	440	<40	<40	NA	20	NA	<40	<40	<40	<20	<20	<40	<40	<40	<40	<400	<40	<40	<40	<40	<40	<40	<80	<40
	11/12/2001	<220	<22	<220	<22	390	<22	<22	590	16 J	82 J	<22	<22	<22	<11	<11	4 J	<22	<22	3.5 J	<220	<22	<22	<22	<22	<22	<22	<44	10 J
	10/20/2002	49 J B	14 J	NA	6.7 J	310	<25	NA	540	NA	82 J	<25	<25	NA	NA	NA	<25	NA	13 J B	<25	NA	NA	<25	NA	NA	NA	NA	NA	<25
	11/10/2003	<250	<25	<250	<25	770	<25	<25	200	<50	63	<25	<25	<25	<12	<12	<25	<25	<25	<25	<250	<25	<25	<25	<25	<25	<25	<25	<25
	3/28/2004	<200	<20	<200	<20	580	<20	<20	91	<25	44	<20	<20	<20	<10	<10	<20	<20	<20	<20	<200	<20	<20	<20	<20	<20	<20	<20	<20

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
UAW05-20 Dup	3/28/2004	<170	<17	<170	<17	540	<17	<17	95	<40	47	<17	<17	<17	<8.3	<8.3	<17	<17	<17	<17	<170	<17	<17	<17	<17	<17	<17	<17	<17
	11/4/2004	57 J B	8.6 J B	<200	6.9 J	560	<20	<20	90	7.3 J	52	<20	<20	<20	<10	<10	<20	<20	16 J B	<20	<200	<20	<20	<20	<20	<20	<20	<20	<20
	11/14/2005	<200	<20	<200	<20	780	<20	<20	100	9.4 J	71	<20	<20	<20	<10	<10	<20	<20	<20	<20	<200	<20	<20	<20	<20	<20	<20	<20	<20
	11/9/2006	< 170	< 17	< 170	< 17	550	< 17	< 17	41	5.1 J	45	< 17	< 17	< 17	< 8.3	< 8.3	< 17	< 17	10 J	< 17	< 170	< 17	< 17	< 17	< 17	< 17	< 17	< 17	< 17
	11/15/2007	< 620	< 62	< 620	49 J	1600	< 62	< 62	100	< 62	85	< 62	< 62	< 62	< 31	< 31	< 62	< 62	< 62	< 62	< 620	< 62	< 62	< 62	< 62	< 62	< 62	< 62	< 62
	11/5/2008	< 500	31 J	< 500	< 50	1500 J	< 50	< 50	340	20 J	180	< 50	< 50	< 50	< 25	< 25	< 50	< 50	< 50	< 50	29 J	< 50	130 J	< 50	< 50	< 50	< 50	< 50	< 50
	11/17/2009	< 200	11 J	< 200	11 J	1500	< 20	< 20	570	29	220	< 20	< 20	< 20	< 10	< 10	18 J	< 20	20 U	< 20	< 200	< 20	3.9 J	< 20	< 20	< 20	< 20	< 20	24
	11/18/2010	96 J	9.8 J	< 180	< 18	570	< 18	< 18	420	18	130	< 18	< 18	< 18	< 9.1	< 9.1	4.9 J	< 18	< 18	< 18	< 180	< 18	40	< 18	< 18	< 18	< 18	< 18	< 18
	12/12/2012	22000	17 J	12 J	11 J	680	< 20	< 20	650	26	160	< 20	< 20	< 20	< 20	< 20	16 J	< 20	7.5 J	< 20	12 J	< 20	35	< 20	< 20	< 20	< 20	< 20	24 J
UAW05-20 Dup	12/12/2012	23000	17 J	17 J	16 J	700	< 25	< 25	670	26	160	< 25	< 25	< 25	< 25	< 25	16 J	< 25	26	< 25	12 J	< 25	38	< 25	< 25	< 25	< 25	< 25	25 J
	12/9/2016	16 J	9.5	<20	3.3	570	<2	1.2 J	410	16	110	<2	<2	<2	<2	<2	11	0.92 J	2	4	5.9 J	<2	4.9	<2	<2	<2	<2	<2	19
UAW06-20	5/6/2001	720	<10	<100	<10	70	<10	<10	14	<10	<10	<10	<10	<10	<5	<5	<10	<10	<10	<10	<100	<10	<10	<10	<10	<10	<10	<20	<10
	10/10/2001	11000	<170	<1700	<170	100 J	<170	<170	16 J	<25	<25	<170	<170	<170	<83	<83	<170	<170	<170	<170	<1700	<170	<170	<170	<170	<170	<170	<330	<170
	11/13/2001	45000	<670	750 J B	<670	110 J	<670	<670	25	<25	4 J	<670	<670	<670	<330	<330	<670	<670	<670	<670	<6700	<670	<670	<670	<670	<670	<670	<1300	<670
	10/20/2002	170 B	1.2 J	NA	1.8 J	71	<2.5	NA	18 J	NA	<50	2.2 J	<2.5	NA	NA	NA	1.3 J	NA	<2.5	<2.5	NA	NA	13	NA	NA	NA	NA	NA	<2.5
	11/12/2003	<33	<3.3	<33	<3.3	73	<3.3	<3.3	<100	<100	<100	<3.3	<3.3	<3.3	<1.7	<1.7	<3.3	<3.3	<3.3	<3.3	<33	<3.3	3.8	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3
	3/29/2004	<25	<2.5	<25	<2.5	52	<2.5	<2.5	41	<20	<20	<2.5	<2.5	<2.5	<1.2	<1.2	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
	11/4/2004	10 J B	1.7 J B	<33	1.7 J	83	<3.3	<3.3	52	<40	5.1 J	1.2 J	<3.3	<3.3	<1.7	<1.7	1.6 J	4.1	1.8 J B	<3.3	<33	<3.3	1.3 J	<3.3	<3.3	<3.3	<3.3	<3.3	4.7
	11/15/2005	<33	1.2 J	<33	<3.3	120	<3.3	<3.3	100	1.7 J	10	1.7 J	<3.3	<3.3	<1.7	<1.7	1.4 J	<3.3	<3.3	<3.3	<33	<3.3	1.5 J	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3
	11/9/2006	< 50	< 5	< 50	< 5	120	< 5	< 5	140	2.1 J	13	< 5	< 5	< 5	< 2.5	< 2.5	< 5	< 5	< 5	< 5	< 50	< 5	1 J	< 5	< 5	< 5	< 5	< 5	< 5
	11/15/2007	< 50	< 5	< 50	3.6 J	100	< 5	< 5	150	2.2 J	15	< 5	< 5	< 5	< 2.5	< 2.5	< 5	< 5	< 5	< 5	< 50	< 5	0.87 J	< 5	< 5	< 5	< 5	< 5	< 5
	11/4/2008	< 20	1.2 J	< 20	< 2	50	< 2	< 2	67	1.2 J	7.6	1.4 J	< 2	< 2	0.44 J	< 1	< 2	< 2	< 2	< 2	< 20	< 2	0.87 J	< 2	< 2	< 2	< 2	< 2	0.84 J
	11/17/2009	< 10	0.96 J	< 10	0.78 J	55	< 1	< 1	77	1.5	9	0.79 J	< 1	< 1	0.46 J	< 0.5	0.27 J	0.22 J	< 1	1 U	< 10	< 1	1.1	< 1	< 1	< 1	< 1	< 1	0.9 J
	11/18/2010	< 25	< 2.5	< 25	< 2.5	35	< 2.5	< 2.5	71	1.3 J	8.1	0.57 J	< 2.5	< 2.5	< 1.2	< 1.2	< 2.5	< 2.5	< 2.5	< 2.5	< 25	< 2.5	0.88 J	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
	12/12/2012	1.2 J	0.77 J	< 10	0.34 J	23	< 1	< 1	66	1.4	7.8	0.5 J	< 1	< 1	0.32 J	< 1	< 1	< 1	< 1	0.13 J	< 10	< 1	0.52 J	< 1	< 1	< 1	< 1	< 1	< 2
	12/9/2016	<10	0.6 J	<10	<1	84	<1	<1	39	1.5	8.9	0.47 J	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	0.41 J	<1	<1	<1	<1	<1	<2
UAW07-20	5/8/2001	<20	2.1	<20	2.4	39	<2	NA	37 J	<100	<100	1.6 J	<2	<2	<1	<1	4.4	NA	<2	NA	<10	<2	3.5	<2	<2	<2	NA	<4	13
UAW07-20 Dup	5/8/2001	<25	1.8 J	<25	1.1 J	38	<2.5	NA	34	<25	<25	1.5 J	<2.5	<2.5	<1.2	<1.2	4.3	NA	<2.5	NA	<12	<2.5	3.6	<2.5	<2.5	<2.5	NA	<5	13
	11/15/2001	3.3 J B	5.2	<20	<2	64	<2	NA	57	<40	8 J	1.2 J	<2	<2	<1	<1	5.6	NA	2.3 B	NA	<10	<2	1.2 J	<2	<2	<2	NA	<4	13
	10/20/2002	4.8 J	5.8	NA	0.67 J	71	<2.5	NA	61	NA	7.2 J	<2.5	<2.5	NA	NA	NA	2.2 J	NA	1.4 J B	<2.5	NA	NA	<2.5	NA	NA	NA	NA	NA	7.6
	11/12/2003	<33	4.1	<33	<3.3	91	<3.3	<3.3	100	<50	<50	<3.3	<3.3	<3.3	<1.7	<1.7	<3.3	3.4	<3.3	<3.3	<33	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	5.6
UAW07-20 Dup	11/12/2003	<33	4.1	<33	<3.3	93	<3.3	<3.3	83	<40	<40	<3.3	<3.3	<3.3	<1.7	<1.7	<3.3	3.3	<3.3	<3.3	<33	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	5.7
	4/5/2004	<20	3.4	<20	<2	69	<2	<2	<100	<100	<100	<2	<2	<2	<1	<1	2.7	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	5
	11/4/2004	14 J B	6.3 J B	<67	7.1	190	<6.7	<6.7	100	<100	12 J	<6.7	<6.7	<6.7	<3.3	<3.3	<6.7	8.9	4.2 J B	<6.7	<67	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	13
	11/15/2005	<83	2.7 J	<83	<8.3	270	<8.3	<8.3	180	1.7 J	17	<8.3	<8.3	<8.3	<4.2	<4.2	2.2 J	2.5 J	<8.3	<8.3	<83	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	6.5 J
	11/6/2006	< 57	3.2 J	< 57	< 5.7	160	< 5.7	< 5.7	71	1.4 J	10	< 5.7	< 5.7	< 5.7	< 2.9	< 2.9	3.1 J	1.1 J	< 5.7	< 5.7	< 57	< 5.7	< 5.7	< 5.7	< 5.7	< 5.7	< 5.7	< 5.7	4.3 J
	11/15/2007	< 200	< 20	< 200	< 20	530 J	< 20	< 20	290	< 20	26	< 20	< 20	< 20	< 10	< 10	< 20	< 20	< 20	< 20	< 200	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
	11/4/2008	< 170	< 17	< 170	< 17	480	< 17	< 17	260	3.2 J	27	< 17	< 17	< 17	< 8.3	< 8.3	< 17	< 17	< 17	< 17	< 170	< 17	< 17	< 17	< 17	< 17	< 17	< 17	< 17
	11/16/2009	< 67	3.1 J	< 67	20	500	< 6.7	< 6.7	210	3.2 J	23	< 6.7	< 6.7	< 6.7	< 3.3	< 3.3	1.6 J	1.6 J	6.7 U	6.7 U	< 67	< 6.7	4.5 J	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	6.7

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
	11/19/2010	< 170	< 17	< 170	19	520	< 17	< 17	240	3.7 J	30	< 17	< 17	< 17	< 8.3	< 8.3	< 17	< 17	< 17	< 17	< 170	< 17	< 17	< 17	< 17	< 17	< 17	< 17	< 17
	11/27/2012	< 10	2.1	< 10	< 1	370	< 1	< 1	240	5.4	39	< 1	< 1	< 1	< 1	< 1	1.9	2	< 1	< 1	< 10	< 1	0.38 J	< 1	< 1	< 1	< 1	< 1	5.1
	12/9/2016	<50	1.4 J	<50	78	390	<5	<5	170	5.3	38	<5	<5	<5	<5	<5	<5	1.3 J	6.2	<5	<50	<5	<5	<5	<5	<5	<5	<5	1.3 J
UAW08-20	5/6/2001	150 J	41	<330	20 J	37	<33	NA	<1700	<1700	<1700	<33	<33	<33	<17	<17	32 J	NA	<33	NA	<170	<33	1100	<33	<33	<33	NA	<67	140
	11/13/2001	580 J	110	130 J B	64 J	61 J	<100	NA	530 J	<1300	<1300	<100	<100	<100	<50	<50	57 J	NA	42 J B	NA	<500	<100	1400	<100	<100	<100	NA	<200	190
	10/20/2002	250 J B	110	NA	46	48	<33	NA	280 J	NA	<1000	<33	<33	NA	NA	NA	40	NA	15 J B	<33	NA	NA	1100	NA	NA	NA	NA	NA	180
	11/10/2003	<400	120	<400	<40	54	<40	<40	<2500	<2500	<2500	<40	<40	<40	<20	<20	44	<40	<40	<40	<400	<40	1000	<40	<40	<40	<40	<40	190
	3/29/2004	<500	92	<500	51	61	<50	<50	<4000	<4000	<4000	<50	<50	<50	<25	<25	54	<50	<50	<50	<500	<50	1200	<50	<50	<50	<50	<50	230
	11/4/2004	280 J B	150 B	29 J	59	62	<33	<33	380 J	<2000	<2000	<33	<33	<33	<17	<17	59	<33	25 J B	17 J	66 J	<33	1100	<33	<33	<33	<33	<33	270
	11/15/2005	260 U	150	<250	61	62	<25	3.9 J	380	7.6 J	41	<25	<25	<25	<12	<12	55	<25	<25	18 J	35 U	<25	970	<25	<25	<25	<25	<25	240
	11/9/2006	< 100	87	< 100	< 10	36	< 10	1.9 J	230	3.9 J	22	< 10	< 10	< 10	< 5	< 5	30	< 10	5.7 J	8 J	44 J	< 10	260	< 10	< 10	< 10	< 10	< 10	130
	11/7/2007	< 170	93	< 170	22 U	54	< 17	3.4 J	280	5 J	28	< 17	< 17	< 17	< 8.3	< 8.3	43	< 17	< 17	15 J	37 J	< 17	430	< 17	< 17	< 17	< 17	< 17	180
	11/4/2008	77	81	< 67	30	72	< 6.7	8.1	260	4.8 J	27	< 6.7	< 6.7	< 6.7	< 3.3	< 3.3	58	2.2 J	< 6.7	45	78	< 6.7	230	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	240
UAW08-20 Dup	11/4/2008	< 75	86	< 67	38	74	< 6.7	8.5	270	5.2 J	28	< 6.7	< 6.7	< 6.7	< 3.3	< 3.3	62	2.4 J	< 6.7	46	68	< 6.7	240	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	250
	11/16/2009	50 U	97	< 50	30	87	< 5	9.7	280	5.5	31	1.1 J	< 5	< 5	< 2.5	< 2.5	68	2.2 J	5 U	52	53	< 5	270	< 5	< 5	< 5	< 5	< 5	280
	11/19/2010	47 J	90	10 J	41	82	< 10	3.7 J	320	5.9 J	37	< 10	< 10	< 10	< 5	< 5	43	< 10	< 10	26	49 J	< 10	85	< 10	< 10	< 10	< 10	< 10	150
	11/27/2012	19	130	4.4 J	31	120	< 1	14	440	9.3	52	0.74 J	< 1	< 1	0.6 J	< 1	82	2.7	< 1	67	37	< 1	120	< 1	< 1	0.36 J	< 1	< 1	270
	12/9/2016	<170	120 J	<170	250 J	140 J	<17	<17	490 J	9 J	55 J	<17	<17	<17	<17	<17	76 J	<17	19 J	45 J	24 J	<17	51 J	<17	<17	<17	<17	<17	220 J
UAW09-20	5/5/2001	<10	<1	<10	<1	<1	0.4 J	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	11/9/2001	<10	<1	<10	<1	<1	<1	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	0.28 J B	<1	<2	<1
	10/16/2002	<10	<1	NA	<1	<1	<1	NA				<1	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1
	11/11/2003	<10	<1	<10	<1	<1	<1	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	4/6/2004	<10	<1	<10	<1	<1	<1	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/6/2004	<10	<1	<10	<1	<1	<1	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/10/2005	<10	<1	<10	<1	<1	0.74 J	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/3/2006	< 10	< 1	< 10	< 1	< 1	2.7	< 1	< 1	< 1	< 1	< 1	< 1	0.19 J	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	0.21 J	< 1	< 1	< 1	< 1	< 1	< 1
	11/15/2007	< 10	< 1	< 10	< 1	< 1	0.36 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/12/2008	< 10	< 1	< 10	< 1	< 1	2.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/18/2009	< 10	< 1	< 10	< 1	< 1	12	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/22/2010	< 10	< 1	< 10	< 1	< 1	8.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/13/2012	10 U	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
	12/5/2016	<10	<1	<10	<1	<1	7.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW09-60	5/5/2001	<10	<1	<10	<1	<1	0.4 J	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	11/9/2001	<10	<1	<10	<1	<1	0.32 J	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	0.27 J B	<1	<2	<1
	10/16/2002	<10	<1	NA	<1	<1	<1	NA				<1	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1
	11/11/2003	<10	<1	<10	<1	<1	<1	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	4/6/2004	<10	<1	<10	<1	<1	<1	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/6/2004	0.83 J B	<1	<10	<1	<1	6.1	<1				<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
	11/10/2005	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/3/2006	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/15/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
UAW09-60 Dup	11/15/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/12/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/18/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/22/2010	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/13/2012	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
	12/2/2016	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW10-50	10/12/2001	1.1 J	<2	<20	<2	<2	20	<2	<10	<10	<10	12	54	3.4	54	0.87 J	<2	<2	2.1	<2	<20	0.48 J	<2	36	1.9 J	3.6	2.1	0.43 J	<2
	11/13/2001	3 J	<4	5.3 J B	<4	<4	35	<4	5 J	<10	2.3 J	12	45	1.6 J	46	0.75 J	<4	<4	3.5 J B	<4	<40	<4	<4	32	1.4 J	2.8 J	1.5 J	<8	<4
	10/19/2002	1.9 J	<1.4	NA	<1.4	<1.4	13	NA	<10	NA	<10	13	23	NA	NA	NA	<1.4	NA	0.91 J B	<1.4	NA	NA	<1.4	NA	NA	NA	NA	NA	<1.4
	11/10/2003	<14	<1.4	<14	<1.4	<1.4	24	<1.4	<10	<10	<10	14	10	1.7	38	0.97	<1.4	<1.4	<1.4	<1.4	<14	<1.4	<1.4	14	<1.4	1.7	1.7	<1.4	<1.4
	3/30/2004	<100	<10	<100	<10	<10	68	<10	<10	<10	<10	13	380	<10	59	<5	<10	<10	<10	<10	<100	<10	<10	16	<10	<10	<10	<10	<10
	11/5/2004	17 J B	<9.1	<91	<9.1	<9.1	29	<9.1	<10	<10	<10	11	230	<9.1	52	<4.5	<9.1	<9.1	3.6 J	<9.1	<91	3.2 J	<9.1	13	<9.1	3.2 J	3.2 J	<9.1	<9.1
	11/11/2005	<50	<5	<50	<5	<5	23	<5	<5	<5	<5	6.7	110	<5	45	2.8	<5	<5	1.5 U	<5	<50	2.7 J	<5	8.2	1.3 J	2.2 J	<5	<5	<5
	11/9/2006	< 140	< 14	< 140	< 14	< 14	22	< 14	< 14	< 14	< 14	5.4 J	420	< 14	33	< 7.1	< 14	< 14	7.6 J	< 14	< 140	10 J	< 14	11 J	< 14	4 J	< 14	< 14	< 14
	11/12/2007	< 10	< 1	< 10	< 1	< 1	35	< 1	< 1	< 1	< 1	2.6	4.7	0.86 J	22	0.7	< 1	< 1	< 1	< 1	< 10	4.9	< 1	4.2	1	2.2	1	< 1	< 1
UAW10-50 Dup	11/12/2007	< 10	< 1	< 10	< 1	< 1	34	< 1	< 1	< 1	< 1	2.6	4.6	0.74 J	22	0.62	< 1	< 1	< 1	< 1	< 10	4.6	< 1	4.1	1	2.1	0.93 J	< 1	< 1
	11/12/2008	< 10	< 1	< 10	< 1	< 1	3.1	< 1	< 1	< 1	< 1	6.5	17	1.1	30	1.2	< 1	< 1	< 1	< 1	< 10	5.3	< 1	5.3	0.43 J	2	1.4	< 1	< 1
UAW10-50 Dup	11/12/2008	< 10	< 1	< 10	< 1	< 1	3	< 1	< 1	< 1	< 1	6.3	17	1.1	29	1.1	< 1	< 1	< 1	< 1	< 10	5.1	< 1	5.1	0.52 J	1.9	1.3	< 1	< 1
	11/20/2009	< 10	< 1	< 10	< 1	< 1	2.7	< 1	< 1	< 1	< 1	5.3	2.6	0.64 J	28	1.2	< 1	< 1	< 1	< 1	< 10	3.8	< 1	4.9	0.63 J	1.9	0.89 J	0.27 J	< 1
UAW10-50 Dup	11/20/2009	< 10	< 1	< 10	< 1	< 1	2.7	< 1	< 1	< 1	< 1	5.2	2.6	0.63 J	28	1.2	< 1	< 1	< 1	< 1	< 10	3.8	< 1	4.8	0.66 J	1.9	0.92 J	0.28 J	< 1
	11/18/2010	< 10	< 1	< 10	< 1	< 1	1.5 U	< 1	< 1	< 1	< 1	3.9	2.4	0.61 J	18	0.9	< 1	< 1	< 1	< 1	< 10	3.2	< 1	3.4	0.54 J	1.6	0.72 J	0.25 J	< 1
	12/10/2012	< 10	< 1	< 10	< 1	< 1	1.2	< 1	< 1	< 1	< 1	4	1.3	0.47 J	14	0.76 J	< 1	< 1	< 1	< 1	< 10	3.1	0.17 J	2.8	0.29 J	1.5	0.61 J	< 1	< 2
	12/14/2016	<10	<1	<10	<1	<1	4.4	<1	<2	<1	<1	1.8	0.38 J	<1	3.6	0.29 J	<1	<1	<1	<1	<10	5	<1	1	<2	1.2	<1	<1	<2
UAW10-80	10/12/2001	35 J	<67	<670	<67	<67	24 J	<67	<10	<10	<10	<67	2200	<67	<33	<33	<67	<67	240	<67	<670	<67	<67	<67	<67	<67	<67	23 J	<67
	11/13/2001	<1700	<170	190 J B	<170	<170	<170	<170	<10	<10	<10	<170	3500	<170	<83	<83	<170	<170	81 J B	<170	<1700	<170	<170	<170	<170	<170	<170	<330	<170
	10/19/2002	12 J	<6.7	NA	<6.7	<6.7	<6.7	NA	<10	NA	<10	<6.7	67	NA	NA	NA	<6.7	NA	3.1 J B	<6.7	NA	NA	<6.7	NA	NA	NA	NA	NA	<6.7
	11/13/2003	<220	<22	<220	<22	<22	<22	<22	<10	<10	<10	<22	530	<22	<11	<11	<22	<22	<22	<22	<220	<22	<22	<22	<22	<22	<22	<22	<22
	3/30/2004	<20	<2	<20	<2	<2	<2	<2	<10	<10	<10	<2	63	<2	<1	<1	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2
	11/5/2004	3.4 J B	1 J B	<17	<1.7	<1.7	<1.7	<1.7	<10	<10	<10	<1.7	49	<1.7	1	<0.84	<1.7	<1.7	1.8 B	<1.7	<17	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	0.92 J	2.1
	11/16/2005	<25	<2.5	<25	<2.5	<2.5	0.47 J	<2.5	<2.5	<2.5	<2.5	<2.5	66	<2.5	0.97 J	<1.2	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	1.5 J	<2.5
	11/9/2006	< 10	< 1	< 10	< 1	< 1	0.23 J	< 1	< 1	< 1	< 1	0.27 J	3.3	< 1	0.56	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	0.47 J	< 1
	11/12/2007	< 14	< 1.4	< 14	< 1.4	< 1.4	0.41 J	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	40	< 1.4	0.59 J	< 0.72	< 1.4	< 1.4	< 1.4	< 1.4	< 14	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	0.51 J	< 1.4
	11/12/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/20/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/18/2010	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.9 J	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/10/2012	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.37 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
	12/15/2016	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW11-10	5/8/2001	32000	<500	<5000	270 J	<500	<500	<500	<500	<500	<500	<500	<500	<500	<250	<250	<500	<500	<500	<500	<5000	<500	<500	<500	<500	<500	<500	<1000	<500
	11/10/2001	14000	<250	<2500	<250	<250	<250	<250	13 J	<25	3.7 J	<250	<250	<250	<120	<120	<250	<250	190 J B	<250	<2500	<250	<250	<250	<250	<250	<250	<500	<250
	10/18/2002	1100	<20	NA	<20	32	<20	NA	9.1 J	NA	3 J	<20	<20	NA	NA	NA	<20	NA	20 B	<20	NA	NA	<20	NA	NA	NA	NA	NA	<20
	11/16/2003	350	<7.1	<71	<7.1	17	<7.1	<7.1	<10	<10	<10	<7.1	<7.1	<7.1	<3.6	<3.6	<7.1	<7.1	<7.1	<7.1	<71	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1
	4/6/2004	2000	<40	<400	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<20	<20	<40	<40	<40	<40	<400	<40	<40	<40	<40	<40	<40	<40	<40
	11/7/2004	230 B	1.1 J	3.4 J	<5	11	<5	<5	8.9 J	<10	3.7 J	1.8 J	<5	<5	1.4 J	<2.5	<5	<5	7.3 B	<5	<50	<5	1.3 J	<5	<5	<5	<5	<5	<5
	11/10/2005	160	0.89 J	4.7 U	0.31 J	5.3	<1	<1	20	1.1	8.6	1.1	<1	<1	0.77	<0.5	0.8 J	<1	<1	<1	4 U	<1	0.82 J	<1	<1	<1	<1	<1	2.4
	11/2/2006	< 330	< 33	< 330	< 33	< 33	< 33	< 33	8.8 J	< 33	< 33	< 33	< 33	< 33	< 17	< 17	< 33	< 33	< 33	< 33	< 330	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	11/16/2007	< 10	< 1	< 10	6.6	5.2	< 1	< 1	17	1.2	6.9	10	< 1	0.31 J	4.5	0.43 J	< 1	< 1	< 1	< 1	0.94 J	< 1	0.33 J	< 1	< 1	< 1	< 1	0.99 J	< 1
	11/10/2008	220	< 3.3	10 J	< 3.3	6.5	< 3.3	< 3.3	14	0.94 J	5.9	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 3.3	< 3.3	< 3.3	< 3.3	< 33	< 3.3	0.58 J	< 3.3	< 3.3	< 3.3	< 3.3	0.86 J	< 3.3
	11/18/2009	< 10	0.49 J	< 10	< 1	13	< 1	< 1	19	0.96 J	6.2	0.7 J	< 1	< 1	0.35 J	< 0.5	0.21 J	< 1	< 1	< 1	< 10	< 1	0.8 J	< 1	< 1	< 1	< 1	0.56 J	< 1
	11/29/2010	5.1 J	0.63 J	< 10	0.28 J	10	< 1	< 1	13	0.67 J	4.8	5.1	< 1	< 1	2.2	0.84	0.21 J	< 1	< 1	< 1	< 10	< 1	0.74 J	< 1	< 1	< 1	< 1	1.1	< 1
	12/4/2012	7.2 J	1.1	0.67 J	0.27 J	4.1	< 1	< 1	15	0.62 J	4.6	4.8	< 1	0.4 J	5.6	2.2	< 1	< 1	< 1	0.24 J	0.43 J	< 1	0.85 J	< 1	< 1	< 1	< 1	1.2	< 2
	12/8/2016	<10	0.45 J	<10	<1	3.7	<1	<1	6.5	0.39 J	2.5	5.3	<1	0.31 J	14	0.47 J	<1	<1	<1	<1	<10	<1	0.58 J	<1	<1	<1	<1	<1	<2
UAW11-40	5/8/2001	<50	<5	<50	<5	3 J	2.1 J	<5	<10	<10	<10	10	160	<5	12	<2.5	<5	<5	<5	<5	<50	14	<5	15	<5	2.5 J	<5	<10	<5
	11/12/2001	6.6 J B	<5	<50	<5	3.2 J	3.5 J	<5	<10	<10	<10	9.5	130	<5	12	<2.5	<5	<5	<5	<5	<50	16	<5	13	<5	2.6 J	<5	<10	<5
	10/18/2002	<10	<1	NA	<1	3.6	1.7	NA	<10	NA	<10	7	26	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1
	11/16/2003	<10	<1	<10	<1	2.4	<1	<1	<10	<10	<10	4.8	11	<1	5.8	<0.5	<1	<1	<1	<1	<10	21	<1	8.1	<1	2.1	<1	<1	<1
	4/6/2004	<10	<1	<10	<1	2.4	<1	<1	<10	<10	<10	4.5	7.3	<1	5.2	<0.5	<1	<1	<1	<1	<10	20	<1	6.9	<1	2.2	<1	<1	<1
UAW11-40 Dup	4/6/2004	<10	<1	<10	<1	2.3	<1	<1	<10	<10	<10	4.5	7.2	<1	5.1	<0.5	<1	<1	<1	<1	<10	21	<1	6.6	<1	2.1	<1	<1	<1
	11/7/2004	0.79 J B	<1	<10	<1	2.3	0.52 J	<1	<10	<10	<10	5.2	7.1	<1	6	0.31 J	<1	<1	<1	<1	<10	26	<1	8.4	0.51 J	2.2	1.4	<1	<1
	11/10/2005	0.79 J B	<1	<10	<1	2.2	0.53 J	<1	0.52 J	<1	<1	5.4	7.7	0.44 J	6.1	0.29 J	<1	<1	<1	<1	<10	22	<1	7.3	0.51 J	2.1	0.76 J	<1	<1
	11/2/2006	< 10	< 1	< 10	< 1	1.6	0.7 J	< 1	0.24 J	< 1	< 1	4.6	7.2	0.29 J	6.7	0.32 J	< 1	< 1	< 1	< 1	< 10	13	0.29 J	6.7	0.53 J	1.7	0.68 J	< 1	< 1
	11/16/2007	< 10	< 1	< 10	< 1	1.6	0.3 J	< 1	< 1	< 1	< 1	4.6	8.1	< 1	5.4	0.25 J	< 1	< 1	< 1	< 1	< 10	11	< 1	4.2	0.47 J	1.7	0.61 J	< 1	< 1
	11/10/2008	< 10	< 1	< 10	< 1	1.4	0.32 J	< 1	0.27 J	< 1	< 1	4	4.6	0.19 J	5.7	0.31 J	< 1	< 1	< 1	< 1	< 10	17	< 1	4.6	0.49 J	1.7	0.67 J	< 1	< 1
	11/18/2009	< 10	< 1	< 10	< 1	1.7	0.27 J	< 1	0.34 J	< 1	< 1	3.3	3.5	0.27 J	4.3	0.28 J	< 1	< 1	< 1	< 1	< 10	17	< 1	4.1	0.52 J	1.6	0.49 J	< 1	< 1
	11/29/2010	< 10	< 1	< 10	< 1	2.5	1 U	< 1	0.28 J	< 1	< 1	3.3	4	0.27 J	3.4	0.21 J	< 1	< 1	< 1	< 1	< 10	15	< 1	3.2	0.47 J	1.5	0.3 J	< 1	< 1
UAW11-40 Dup	11/29/2010	< 10	< 1	< 10	< 1	2.6	1 U	< 1	0.25 J	< 1	< 1	3.3	4.1	0.29 J	3.5	0.24 J	< 1	< 1	< 1	< 1	< 10	15	< 1	3.3	0.48 J	1.5	< 1	< 1	< 1
	12/4/2012	< 10	< 1	< 10	< 1	3.7	0.35 J	< 1	0.26 J	< 1	< 1	2.1	5	< 1	2.3	0.22 J	< 1	< 1	< 1	< 1	< 10	10	< 1	1.8	0.33 J	1.4	0.32 J	< 1	< 2
	12/8/2016	<10	<1	<10	<1	3.8	0.99 J	<1	<1	<1	<1	1.9	2.4	<1	2	<1	<1	<1	<1	<1	<10	11	<1	2.2	<1	1.9	<1	<1	<2
UAW12-20	5/6/2001	<560	<56	<560	<56	920	<56	NA	1600	<250	150 J	<56	<56	<56	<28	<28	<56	NA	<56	NA	<280	<56	<56	<56	<56	<56	NA	<110	<56
	11/15/2001	<500	<50	<500	<50	1400	<50	NA	1900	41 J	230	<50	<50	<50	<25	<25	<50	NA	79 B	NA	<250	<50	<50	<50	<50	<50	NA	<100	<50
	10/20/2002	97 J	<50	NA	<50	1300	<50	NA	1100	NA	130 J	<50	<50	NA	NA	NA	<50	NA	16 J B	<50	NA	NA	<50	NA	NA	NA	NA	NA	<50
	11/12/2003	<670	<67	<670	<67	1100	<67	<67	1600	<500	<500	<67	<67	<67	<33	<33	<67	<67	<67	<67	<670	<67	<67	<67	<67	<67	<67	<67	<67
	3/28/2004	<560	<56	<560	<56	1400	<56	<56	1500	<500	<500	<56	<56	<56	<28	<28	<56	<56	<56	<56	<560	<56	<56	<56	<56	<56	<56	<56	<56
	11/4/2004	250 J B	<71	<710	20 J	2400	<71	<71	1100	35 J	180 J	<71	<71	<71	<36	<36	<71	<71	54 J B	<71	<710	<71	<71	<71	<71	<71	<71	<71	<71
	11/14/2005	<1000	<100	<1000	<100	2600	<100	<100	1100	46 J	220	<100	<100	<100	<50	<50	<100	<100	<100	<100	<1000	<100	<100	<100	<100	<100	<100	<100	<100

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
	11/6/2006	< 710	< 71	< 710	< 71	2000	< 71	< 71	310	25 J	140	< 71	< 71	< 71	< 36	< 36	< 71	< 71	< 71	< 71	< 710	< 71	< 71	< 71	< 71	< 71	< 71	< 71	< 71
	11/16/2007	< 670	< 67	< 670	45 J	1800	< 67	< 67	260	28 J	130	< 67	< 67	< 67	< 33	< 33	< 67	< 67	< 67	< 67	< 670	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67
	11/6/2008	< 330	< 33	< 330	14 J	860	< 33	< 33	360	39	150	< 33	< 33	< 33	< 17	< 17	< 33	< 33	< 130	< 33	< 330	< 33	< 33	< 33	< 33	< 33	< 33	< 33	< 33
	11/19/2009	< 180	< 18	< 180	< 18	380	< 18	< 18	670	49	190	< 18	< 18	< 18	< 9.1	< 9.1	< 18	< 18	< 18	< 18	< 180	< 18	< 18	< 18	< 18	< 18	< 18	< 18	< 18
	11/29/2010	< 200	< 20	< 200	< 20	590	< 20	< 20	600	48	180	< 20	< 20	< 20	< 10	< 10	< 20	< 20	< 20	< 20	< 200	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
	12/4/2012	< 17	1.8	< 17	4.7	360	< 1.7	< 1.7	500	42	130	0.27 J	< 1.7	< 1.7	< 1.7	< 1.7	1.4 J	< 1.7	< 1.7	0.23 J	< 17	< 1.7	0.68 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	1.4 J
	12/9/2016	<140	<14	<140	150	340	<14	<14	400	37	110	<14	<14	<14	<14	<14	<14	<14	<14	19	<14	<140	<14	<14	<14	<14	<14	<14	<14	<29
UAW13-20	5/6/2001	180	21	<100	170	20	<10	NA	<200	<200	<200	4.9 J	<10	<10	1.7 J	<5	<10	NA	<10	NA	<50	<10	250	<10	<10	<10	NA	<20	5.4 J
	11/15/2001	450 B	20	38 J	140	31	<17	NA	49 J	<200	<200	<17	<17	<17	<8.3	<8.3	4.1 J	NA	25 B	NA	22 J	<17	350	<17	<17	<17	NA	<33	9.1 J
	10/23/2002	300 J	18 J	NA	410	38 J	<40	NA	55 J	NA	<250	<40	<40	NA	NA	NA	<40	NA	22 J	<40	NA	NA	1400	NA	NA	NA	NA	NA	<40
	11/12/2003	190	19	<100	120	29	<10	<10	<100	<100	<100	<10	<10	<10	<5	<5	<10	<10	<10	<10	<100	<10	210	<10	<10	<10	<10	<10	<10
	3/28/2004	<200	<20	<200	150	28	<20	<20	<250	<250	<250	<20	<20	<20	<10	<10	<20	<20	<20	<20	<200	<20	97	<20	<20	<20	<20	<20	<20
	11/5/2004	200 B	26 B	21 J	180	32	<20	<20	53 J	<100	11 J	<20	<20	<20	<10	<10	<20	<20	<20	<20	36 J	<20	52	<20	<20	<20	<20	24	
	11/16/2005	95 J	22	16 J	120	40	<10	<10	66	<10	11	<10	<10	<10	<5	<5	4.3 J	<10	<10	<10	7.2 J	<10	23	<10	<10	<10	<10	<10	8.9 J
	10/31/2006	< 100	15	< 100	95	39	< 10	< 10	66	< 10	11	< 10	< 10	< 10	< 5	< 5	3 J	< 10	< 10	< 10	8.5 J	< 10	13	< 10	< 10	< 10	< 10	< 10	6.1 J
	11/16/2007	130 U	12	< 120	140	58	< 12	< 12	88	< 12	14	< 12	< 12	< 12	< 6.2	< 6.2	5.1 J	< 12	< 12	< 12	15 J	< 12	42	< 12	< 12	< 12	< 12	2.8 J	9.2 J
	11/6/2008	< 670	< 67	110 J B	100	64 J	< 67	< 67	120	< 67	20 J	< 67	< 67	< 67	< 33	< 33	< 67	< 67	< 260	< 67	37 J	< 67	1700	< 67	< 67	< 67	< 67	< 67	< 67
	11/19/2009	150	11	< 40	84	44	< 4	< 4	150	< 4	20	< 4	< 4	< 4	< 2	< 2	5.5	< 4	< 4	< 4	9.3 J	< 4	18	< 4	< 4	< 4	< 4	< 4	11
	11/29/2010	200	14	35 J	65	62	< 10	< 10	170	< 10	24	< 10	< 10	< 10	< 5	< 5	8 J	< 10	< 10	< 10	22 J	< 10	39	< 10	< 10	< 10	< 10	< 10	16
	12/4/2012	58	17	5.2 J	74	29	< 2	< 2	120	1.2 J	18	0.74 J	< 2	< 2	< 2	< 2	4.3	< 2	< 2	< 2	10 J	< 2	340	< 2	< 2	< 2	< 2	< 2	9.3
	12/9/2016	<100	7.8 J	<100	32	64	<10	<10	320	<10	36	<10	<10	<10	<10	<10	19	<10	16	<10	<100	<10	9.3 J	<10	<10	<10	<10	<10	28
UAW14-10	5/5/2001	<10	<1	<10	<1	<1	0.37 J	<1	<10	<10	<10	<1	0.67 J	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	11/9/2001	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	0.31 J B	<2	<1
	10/16/2002	<10	<1	NA	<1	<1	<1	NA	<10	NA	<10	<1	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1
	11/16/2003	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	4/5/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/6/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/16/2005	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/8/2006	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/7/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/13/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/24/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/30/2010	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/13/2012	10 U	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
	12/14/2016	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW15-20	5/6/2001	<10	<1	<10	<1	<1	3.1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	11/11/2001	<10	<1	<10	<1	<1	14	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	5.8	<1	<1	<1	<1	<2	<1
	10/18/2002	<10	<1	NA	0.24 J	<1	5.6	NA	<10	NA	<10	<1	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1

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Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
	11/17/2003	<80	<8	<80	<8	<8	190	<8	<10	<10	<10	<8	<8	<8	<4	<4	<8	<8	<8	<8	<80	<8	<8	<8	<8	<8	<8	<8	<8
	4/7/2004	<50	<5	<50	<5	<5	120	<5	<10	<10	<10	<5	<5	<5	<2.5	<2.5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
	11/7/2004	5.5 J	<6.7	<67	<6.7	<6.7	140	<6.7	<10	<10	<10	<6.7	<6.7	<6.7	<3.3	<3.3	<6.7	<6.7	<6.7	<6.7	<67	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
	11/15/2005	3.8 U	<5	<50	<5	<5	150	<5	<5	<5	<5	<5	<5	<5	<2.5	<2.5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
	11/2/2006	< 14	< 1.4	< 14	< 1.4	< 1.4	40	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.72	< 0.72	< 1.4	< 1.4	< 1.4	< 1.4	< 14	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
	11/19/2007	< 10	< 1	< 10	< 1	< 1	20	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/14/2008	< 10	< 1	< 10	< 1	< 1	21	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/11/2009	< 10	0.52 J	< 10	< 1	< 1	19	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/23/2010	< 10	< 1	< 10	< 1	< 1	7.3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/5/2012	< 10	< 1	< 10	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
	12/8/2016	<10	<1	<10	<1	<1	3.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW15-50	5/6/2001	7300	<120	<1200	<120	<120	<120	<120	<200	<200	<200	<120	<120	<120	<62	<62	<120	<120	<120	<120	<1200	<120	230	<120	<120	<120	<120	<250	<120
	11/11/2001	10000	<170	<1700	<170	25 J	<170	<170	<500	<500	<500	<170	<170	<170	<83	<83	<170	<170	110 J B	<170	<1700	<170	200	<170	<170	<170	<170	<330	<170
	10/18/2002	280	<10	NA	<10	23	<10	NA	<500	NA	<500	<10	<10	NA	NA	NA	<10	NA	6.3 J B	<10	NA	NA	140	NA	NA	NA	NA	NA	<10
	11/17/2003	<120	<12	<120	<12	21	<12	<12	<200	<200	<200	<12	<12	<12	<6.2	<6.2	<12	<12	<12	<12	<120	<12	87	<12	<12	<12	<12	<12	<12
	4/7/2004	<200	<20	<200	<20	34	<20	<20	<100	<100	<100	<20	<20	<20	<10	<10	<20	<20	<20	<20	<200	<20	200	<20	<20	<20	<20	<20	<20
	11/7/2004	20 J B	<10	4.6 J	<10	19	<10	<10	<100	<100	<100	<10	<10	<10	<5	<5	<10	<10	<10	<10	6.2 J	<10	64	<10	<10	<10	<10	<10	<10
UAW15-50 Dup	11/7/2004	<100	2.8 J	<100	<10	23	<10	<10	<100	<100	<100	<10	<10	<10	<5	<5	<10	<10	12 B	<10	18 J	<10	79	<10	<10	<10	<10	<10	<10
	11/15/2005	4.3 U	<3.3	2 U	<3.3	25	<3.3	0.5 J	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<1.7	<1.7	<3.3	<3.3	<3.3	<3.3	6.3 U	<3.3	43	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3
	11/2/2006	< 50	< 5	4.6 J	1.5 J	25	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 2.5	< 2.5	< 5	< 5	< 5	< 5	8 J	< 5	11	< 5	< 5	< 5	< 5	< 5	< 5
	11/19/2007	< 10	1.1	< 10	< 1	27	< 1	0.42 J	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	0.28 J	< 1	< 1	< 1	15	< 1	0.44 J	< 1	< 1	0.29 J	< 1	< 1	0.61 J
	11/14/2008	< 10	0.72 J	< 10	< 1	17	< 1	0.28 J	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	0.23 J	< 1	< 1	< 1	5.2 J	< 1	3.7	< 1	< 1	0.29 J	< 1	< 1	< 1
	11/11/2009	< 10	0.69 J	< 10	< 1	8.8	< 1	0.39 J	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	1.5 J	< 1	0.23 J	< 1	< 1	< 1	< 1	< 1	< 1
	11/23/2010	< 10	< 1	< 10	< 1	6.3	< 1	0.17 J	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	0.58 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
UAW15-50 Dup	11/23/2010	< 10	< 1	< 10	< 1	6.4	< 1	0.18 J	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	0.56 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/5/2012	< 10	0.7 J	< 10	0.2 J	11	< 1	0.17 J	< 1	< 1	< 1	< 1	< 1	< 1	0.28 J	< 1	< 1	< 1	< 1	< 1	< 10	< 1	0.18 J	< 1	< 1	< 1	< 1	< 1	< 2
	12/8/2016	9 J	<1	1.6 J	0.44 J	2.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW16-10	10/12/2001	8000	<120	<1200	<120	23 J	<120	<120	6.9 J	<10	12	<120	<120	<120	<62	<62	<120	<120	<120	<120	<1200	<120	<120	<120	<120	<120	<120	<250	<120
UAW16-10 Dup	10/12/2001	6500	<100	<1000	<100	24 J	<100	<100	6.2 J	<10	11	<100	<100	<100	<50	<50	<100	<100	<100	<100	<1000	<100	<100	<100	<100	<100	<100	<200	<100
	11/13/2001	6100	<100	<1000	<100	23 J	<100	<100	7.5 J	<10	10	<100	<100	<100	<50	<50	<100	<100	57 J B	<100	<1000	<100	<100	<100	<100	<100	<100	<200	<100
	10/18/2002	3.7 J	0.58 J	NA	<1	21	<1	NA	7 J	NA	8.3 J	<1	<1	NA	NA	NA	<1	NA	<1	1.8	NA	NA	1.1	NA	NA	NA	NA	NA	<1
	11/16/2003	<10	<1	<10	<1	17	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
UAW16-10 Dup	11/17/2003	<10	<1	<10	<1	17	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	4/7/2004	<10	<1	<10	<1	11	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/7/2004	2.9 J B	0.28 J	<10	0.34 J	10	<1	<1	7.5 J	<40	6.5 J	<1	<1	<1	<0.5	<0.5	<1	<1	<1	0.75 J	<10	<1	0.3 J	<1	<1	<1	<1	<1	1.1
	11/15/2005	<10	0.26 J	<10	<1	9.1	<1	<1	14	0.97 J	7.9	<1	<1	<1	<0.5	<0.5	0.21 J	<1	<1	0.95 J	34	<1	0.84 J	<1	<1	<1	<1	<1	<1
	11/6/2006	< 10	0.38 J	< 10	< 1	5.8	< 1	0.21 J	11	0.85 J	6.5	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	0.3 J	< 1	< 1	< 1	< 1	< 1	< 1
	11/19/2007	< 14	< 1.4	<14	< 1.4	7.7	< 1.4	< 1.4	13	0.51 J	5.2	< 1.4	< 1.4	< 1.4	< 0.72	< 0.72	< 1.4	< 1.4	< 1.4	< 1.4	< 14	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
	11/18/2008	< 10	< 1	< 10	< 1	5.4	< 1	< 1	13	0.69 J	5.2	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	0.52 J	< 10	< 1	0.23 J	< 1	< 1	< 1	< 1	< 1	< 1

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
	11/20/2009	< 10	< 1	< 10	< 1	6.8	< 1	< 1	6.6	0.52 J	4.8	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/17/2010	2.3 J	< 1	< 10	0.3 J	3.6	< 1	< 1	6.8	0.49 J	4.1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	0.18 J	< 1	< 1	< 1	< 1	< 1	< 1
	11/30/2012	< 10	0.34 J	< 10	< 1	4.1	< 1	< 1	7.5	0.34 J	2.8	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.5 J	< 10	< 1	0.22 J	< 1	< 1	< 1	< 1	< 1	< 2
UAW16-10 Dup	11/30/2012	< 10	0.35 J	< 10	0.14 J	4.3	< 1	< 1	7.5	0.35 J	2.9	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.53 J	< 10	< 1	0.2 J	< 1	< 1	< 1	< 1	< 1	< 2
	12/8/2016	35	0.29 J	<10	<1	3.2	<1	<1	6.9	<1	3.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW16-10 Dup	12/8/2016	29	0.28 J	<10	0.42 J	3.1	<1	<1	6.6	<	3.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW17-40	5/5/2001	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	11/9/2001	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	0.24 J B	<1	<2	<1
	10/16/2002	<10	<1	NA	<1	<1	<1	NA	<10	NA	<10	<1	<1	<1	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	<1	NA	NA	<1
	11/16/2003	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	3/31/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/6/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/14/2005	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	10/31/2006	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/19/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/7/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/13/2009	< 10	0.48 J	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/11/2010	2.4 J	< 1	4.5 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/13/2012	10 U	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
	12/14/2016	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW18-20	10/12/2001	1.4 J	<1	0.42 J	5.7	2.2	<1	<1	5.7 J	<10	2.8 J	0.29 J	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	0.22 J	<1	<1	<1	<1	<2	<1
	11/13/2001	4.5 J	<2	1.4 J B	1.9 J	1.7 J	<2	<2	<10	<10	<10	0.49 J	<2	<2	<1	<1	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<4	<2
	10/18/2002	<10	<1	NA	0.7 J	2.3	<1	NA	3 J	NA	1.8 J	0.54 J	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1
	11/16/2003	<10	<1	<10	<1	2.1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	4/7/2004	<10	<1	<10	<1	1.7	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/7/2004	1.6 J B	<1	0.88 J	0.78 J	1.5	1.2	0.87 J	2.3 J	<10	1.3 J	<1	<1	<1	<0.5	<0.5	<1	0.58 J	<1	0.63 J	2 J	<1	0.43 J	<1	<1	<1	<1	<1	0.52 J
	11/15/2005	5.1 U	<1	<10	<1	0.42 J	<1	<1	0.39 J	<1	0.24 J	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	0.92 U	<1	<1	<1	<1	<1	<1	<1	<1
	11/6/2006	< 10	0.25 J	< 10	< 1	3	< 1	0.13 J	4.7	0.21 J	1.8	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	0.71 J	< 1	0.31 J	< 1	< 1	< 1	< 1	< 1	< 1
	11/16/2007	< 10	< 1	< 10	5.7	1.1	< 1	< 1	1.6	< 1	0.65 J	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	0.96 J	< 1	0.27 J	< 1	< 1	< 1	< 1	< 1	< 1
	11/18/2008	< 10	< 1	< 10	0.32 J	0.53 J	< 1	< 1	1.4	< 1	0.58 J	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	0.49 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/24/2009	< 10	< 1	< 10	0.37 J	2.1	< 1	< 1	3.6	< 1	1.3	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.32 J	< 1	< 1	< 1
	11/17/2010	16	< 1	1.7 J	< 1	0.84 J	< 1	< 1	2.2	< 1	0.97 J	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	0.94 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/7/2012	10 U	0.2 J	10 U	< 1	0.23 J	< 1	< 1	1.5	< 1	0.72 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	10 U	< 1	0.2 J	< 1	< 1	< 1	< 1	< 1	< 2
	12/14/2016	5.1 J	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.3 J	<1	<1	<1	<1	<1	<1	<1	<2
UAW19-80	5/6/2001	<17	<1.7	<17	<1.7	<1.7	19	<1.7				5.7	45	<1.7	1.3	<0.84	<1.7	<1.7	0.56 J	<1.7	<17	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<3.3	<1.7
	11/12/2001	1.3 J B	<1	<10	<1	<1	12	<1				4.8	33	0.29 J	1.3	<0.5	<1	<1	<1	<1	<10	<1	0.36 J	0.25 J	<1	<1	<1	<2	<1
UAW19-80 Dup	11/12/2001	6.3 J B	<5	<50	<5	3.3 J	3.7 J	<5				9.8	140	<5	13	<2.5	<5	<5	<5	<5	<50	15	<5	13	<5	2.7 J	<5	<10	<5
	10/17/2002	<10	<1	NA	<1	<1	6	NA				8.4	26	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
UAW19-80 Dup	10/17/2002	<10	<1	NA	<1	<1	5.7	NA				8.1	25	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1
	11/13/2003	<10	<1	<10	<1	<1	1.2	<1				11	26	<1	5.5	<0.5	<1	<1	<1	<1	<10	<1	<1	1.9	<1	<1	<1	<1	<1
	3/30/2004	<10	<1	<10	<1	<1	1.1	<1				14	24	1.3	6.8	<0.5	<1	<1	<1	<1	<10	<1	<1	2.5	<1	<1	<1	<1	<1
	11/5/2004	2.7 J B	0.29 J B	<10	<1	<1	1.1	<1				14	25	1.8	7.5	<0.5	<1	<1	<1	<1	<10	<1	<1	2.8	<1	<1	<1	<1	<1
	11/11/2005	<10	<1	<10	<1	<1	1.5	<1	<1	<1	<1	16	35	1.8	11	0.46 J	<1	<1	<1	<1	<10	<1	<1	5.4	0.32 J	<1	<1	<1	<1
UAW19-80 Dup	11/11/2005	<10	<1	<10	<1	<1	1.5	<1	<1	<1	<1	16	35	1.8	11	0.45 J	<1	<1	<1	<1	<10	<1	<1	5.3	0.35 J	<1	<1	<1	<1
	11/8/2006	< 10	< 1	< 10	< 1	< 1	1.3	< 1	< 1	< 1	< 1	15	35	1.8	14	0.48 J	< 1	< 1	< 1	< 1	< 10	< 1	< 1	6.4	0.29 J	< 1	< 1	< 1	< 1
	11/14/2007	< 14	< 1.4	< 14	< 1.4	< 1.4	0.86 J	< 1.4	< 1.4	< 1.4	< 1.4	8.8	34	1.5	12	0.34 J	< 1.4	< 1.4	< 1.4	< 1.4	< 14	< 1.4	< 1.4	4.1	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
	11/11/2008	< 14	< 1.4	< 14	< 1.4	< 1.4	0.86 J	< 1.4	< 1.4	< 1.4	< 1.4	12	47	1.5	16	0.56 J	< 1.4	< 1.4	< 1.4	< 1.4	< 14	< 1.4	< 1.4	5.8	0.41 J	< 1.4	< 1.4	< 1.4	< 1.4
	11/23/2009	< 17	1 J	< 17	< 1.7	< 1.7	1.4 J	< 1.7	< 1.7	< 1.7	< 1.7	11	57	1.1 J	15	0.58 J	< 1.7	< 1.7	< 1.7	< 1.7	< 17	< 1.7	< 1.7	5.4	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
	11/23/2010	< 25	< 2.5	< 25	< 2.5	< 2.5	2 J	< 2.5	< 2.5	< 2.5	< 2.5	11	63	1.5 J	16	0.64 J	< 2.5	< 2.5	< 2.5	< 2.5	< 25	< 2.5	< 2.5	6.2	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
	12/7/2012	< 10	< 1	< 10	< 1	< 1	2.9 U	< 1	< 1	< 1	< 1	9.7	67	1.3	18	0.7 J	< 1	< 1	< 1	< 1	< 10	< 1	< 1	6.8	0.48 J	0.73 J	< 1	< 1	< 2
	12/15/2016	<10	<1	<10	<1	<1	0.53 J	<1	<1	<1	<1	6.7	14	0.65 J	13	0.69 J	<1	<1	<1	<1	<10	<1	<1	4.6	0.43 J	0.71 J	<1	<1	<2
UAW20-60	5/7/2001	<100	<10	<100	<10	<10	40	<10	<10	<10	<10	55	300	11	100	2 J	<10	<10	<10	<10	<100	17	<10	83	3.4 J	6.4 J	3.7 J	<20	<10
	11/14/2001	7.8 J	<11	<110	<11	<11	39	<11	<10	<10	<10	52	310	10 J	92	2.5 J	<11	<11	8 J B	<11	<110	20	<11	94	4.2 J	7 J	4.5 J	<22	<11
UAW20-60 (Dup)	11/14/2001	<110	<11	<110	<11	<11	41	<11	<10	<10	<10	58	320	11	99	1.8 J	<11	<11	7.8 J B	<11	<110	20	<11	98	<11	7.9 J	4.8 J	<22	<11
	10/19/2002	21 J	<12	NA	<12	<12	35	NA	<10	NA	<10	38	410	NA	NA	NA	<12	NA	5.3 J B	<12	NA	NA	<12	NA	NA	NA	NA	NA	<12
UAW20-60 (Dup)	10/19/2002	28 J	<15	NA	<15	<15	31	NA	<10	NA	<10	35	380	NA	NA	NA	<15	NA	6.7 J B	<15	NA	NA	<15	NA	NA	NA	NA	NA	<15
	11/13/2003	<220	<22	<220	<22	<22	65	<22	<10	<10	<10	32	560	<22	73	<11	<22	<22	<22	<22	<220	32	<22	69	<22	<22	<22	<22	<22
	3/30/2004	<330	<33	<330	<33	<33	53	<33	<10	<10	<10	<33	730	<33	57	<17	<33	<33	<33	<33	<330	<33	<33	39	<33	<33	<33	<33	<33
	11/5/2004	130 J B	9.3 J B	<400	<40	<40	71	<40	<10	<10	<10	42	1200	19 J	80	<20	<40	<40	36 J B	<40	<400	41	<40	60	<40	<40	<40	<40	<40
	11/11/2005	<500	<50	<500	<50	<50	70	<50	<50	<50	<50	43 J	1500	9.6 J	81	<25	<50	<50	18 U	<50	<500	43 J	<50	69	<50	<50	<50	<50	<50
	11/7/2006	< 500	< 50	< 500	< 50	< 50	82	< 50	< 50	< 50	< 50	26 J	1600	9.8 J	63	< 25	< 50	< 50	< 50	< 50	< 500	55	< 50	56	< 50	< 50	< 50	< 50	< 50
	11/15/2007	< 670	< 67	< 670	< 67	< 67	73	< 67	< 67	< 67	< 67	26 J	1500	< 67	59	< 33	< 67	< 67	< 67	< 67	< 670	44 J	< 67	50 J	< 67	< 67	< 67	< 67	< 67
	11/18/2008	< 400	< 40	< 400	< 40	< 40	72	< 40	< 40	< 40	< 40	14 J	1200	< 40	44	< 20	< 40	< 40	< 40	< 40	< 400	93	< 40	31 J	< 40	13 J	13 J	< 40	< 40
	11/23/2009	< 290	16 J	< 290	< 29	< 29	65	< 29	< 29	< 29	< 29	< 29	970	< 29	26	< 14	< 29	< 29	< 29	< 29	< 290	130	< 29	11 J	9.5 J	8 J	< 29	< 29	< 29
	11/18/2010	< 250	< 25	< 250	< 25	< 25	49 U	< 25	< 25	< 25	< 25	6.5 J	900	< 25	29	< 12	< 25	< 25	< 25	< 25	< 250	86	< 25	14 J	8.4 J	9.4 J	< 25	< 25	< 25
	12/10/2012	< 10	0.45 J	< 10	< 1	0.23 J	2.6	0.14 J	< 1	< 1	< 1	16	2.3	6.8	36	2	< 1	< 1	< 1	< 1	< 10	66 J	< 1	24	3.1	11	8.5	2.1	< 2
	12/14/2016	<10	<1	<10	<1	0.7 J	0.79 J	<1	<1	<1	<1	4.4	5	1.7	13	0.82 J	<1	<1	<1	<1	<10	77	<1	7.2	1.7	5.2	3.8	<1	<2
UAW20-60 Dup	12/14/2016	<10	<1	<10	<1	0.57 J	0.8 J	<1	<1	<1	<1	4.7	5.2	2.1	14	0.92 J	<1	<1	<1	<1	<10	81	<1	7.7	1.8	5.8	4.6	<1	<2
UAW21-30	5/5/2001	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	11/11/2001	0.8 J B	<1	<10	<1	<1	0.23 J	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	10/18/2002	<10	<1	NA	<1	<1	<1	NA	<10	NA	<10	<1	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1
	11/11/2003	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	3/27/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/3/2004	<10	<1	<10	<1	<1	0.33 J	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	0.45 J	<1	<1	<1	<1	<1	<1	<1
	11/9/2005	<10	<1	<10	<1	<1	0.30 J	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	0.22 J	<1	<1	<1	<1	<1	<1	<1
	11/9/2006	< 10	< 1	< 10	< 1	< 1	0.58 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
	11/6/2007	< 10	< 1	< 10	< 1	< 1	0.6 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	0.59 J	< 1	< 1	< 1
	11/5/2008	< 10	< 1	< 10	< 1	< 1	0.28 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	2	< 1	< 1	< 1	1.4	< 1	< 1	< 1
	11/13/2009	< 10	< 1	< 10	< 1	< 1	1.9	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	9.8	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/15/2010	< 10	< 1	< 10	< 1	< 1	1 U	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	1.9	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/14/2012	10 U	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	9.6	< 1	< 1	< 1	0.24 J	< 1	< 1	< 2
	12/13/2016	<10	<1	<10	<1	<1	0.67 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	7.3	<1	<1	<1	<1	<1	<1	<2
UAW21-80	5/5/2001	<10	<1	<10	<1	<1	0.43 J	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	11/11/2001	1.3 J B	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	10/18/2002	<10	<1	NA	<1	<1	<1	NA	<10	NA	<10	<1	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1
	11/11/2003	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	3/27/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/3/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/8/2005	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	0.22 J	<1
	11/8/2006	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/5/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/13/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	0.26 J	< 1
	11/15/2010	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/14/2012	10 U	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
	12/13/2016	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW22-20	10/13/2001	6.2 J B	1.3 J	<25	<2.5	29	<2.5	<2.5	70	1.6 J	9.7 J	53	2.5	<2.5	6.9	<1.2	<2.5	<2.5	1.6 J B	<2.5	<25	<2.5	0.92 J	<2.5	<2.5	0.39 J	<2.5	14	<2.5
	11/13/2001	5.3 J	2.2 J	10 J B	<6.9	38	<6.9	<6.9	78	1.7 J	9.9 J	66	2.3 J	<6.9	16	<3.4	<6.9	<6.9	4.4 J B	<6.9	<69	<6.9	1.3 J	<6.9	<6.9	2 J	<6.9	15	<6.9
	10/20/2002	3700 B	<50	NA	<50	95	<50	NA	60	NA	10 J	<50	<50	NA	NA	NA	<50	NA	32 J	<50	NA	NA	<50	NA	NA	NA	NA	NA	<50
	11/10/2003	<20	<2	<20	<2	65	<2	<2	44	<20	<20	12	2.7	<2	2.8	<1	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	7.5	<2
	3/29/2004	<10	<1	<10	<1	34	<1	<1	31	<10	<10	8.1	2	<1	1.6	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	3.3	<1
	11/4/2004	7.5 J B	2.6 B	<25	<2.5	53	<2.5	<2.5	34	0.88 J	6.8 J	39	1.5 J	<2.5	17	<1.2	<2.5	<2.5	1.8 J B	<2.5	<25	<2.5	0.59 J	<2.5	<2.5	0.8 J	<2.5	4	2.4 J
	11/14/2005	5.6 U	1.6 J	<20	<2	24	<2	<2	74	1.4 J	8.7	18	0.81 J	<2.0	3.2	<1	<2	<2	<2	<2	<20	<2	0.58 J	<2	<2	<2	<2	5.6	<2
	11/9/2006	< 25	< 2.5	< 25	< 2.5	24	< 2.5	< 2.5	68	1.1 J	7.7	3.9	2.5	< 2.5	1.1 J	< 1.2	< 2.5	< 2.5	< 2.5	< 2.5	< 25	< 2.5	0.54 J	< 2.5	< 2.5	< 2.5	< 2.5	1.3 J	< 2.5
	11/16/2007	560 U	< 12	< 120	< 12	52	< 12	< 12	49	< 12	6.3 J	11 J	< 12	< 12	6.5	< 6.2	< 12	< 12	< 12	< 12	< 120	< 12	< 12	< 12	< 12	< 12	< 12	< 12	< 12
	11/13/2008	< 17	0.76 J	< 17	< 1.7	56	< 1.7	< 1.7	52	1.1 J	7.6	9.3	< 1.7	0.65 J	5.5	0.44 J	< 1.7	< 1.7	< 1.7	< 1.7	< 17	< 1.7	1.2 J	< 1.7	< 1.7	8.9	< 1.7	2.4	< 1.7
UAW22-20 Dup	11/13/2008	< 17	0.79 J	< 17	< 1.7	60	< 1.7	< 1.7	57	1.1 J	8.3	9.6	< 1.7	0.68 J	5.9	0.44 J	< 1.7	< 1.7	< 1.7	< 1.7	< 17	< 1.7	1.2 J	< 1.7	< 1.7	9.5	< 1.7	2.4	< 1.7
	11/11/2009	< 33	1.4 J	< 33	< 3.3	74	< 3.3	< 3.3	62	1.4 J	11	3.7	< 3.3	< 3.3	1.6 J	< 1.7	< 3.3	< 3.3	< 3.3	< 3.3	< 33	< 3.3	0.92 J	< 3.3	< 3.3	< 3.3	< 3.3	1.6 J	< 3.3
	11/15/2010	1.3 J	0.43 J	< 10	< 1	21	< 1	< 1	37	0.81 J	5.6	5.9	0.79 J	0.41 J	4	0.33 J	< 1	< 1	< 1	< 1	< 10	< 1	0.58 J	< 1	< 1	0.46 J	< 1	1.7	< 1
UAW22-20 Dup	11/15/2010	< 10	0.44 J	< 10	< 1	20	< 1	< 1	36	0.79 J	5.3	5.8	0.85 J	0.43 J	4	0.37 J	< 1	< 1	< 1	< 1	< 10	< 1	0.53 J	< 1	< 1	0.46 J	< 1	1.8	< 1
	12/7/2012	10 U	0.35 J	< 10	< 1	29	< 1	< 1	22	0.54 J	3.1	5.6	< 1	0.34 J	4.3	0.36 J	< 1	< 1	< 1	< 1	< 10	< 1	0.39 J	< 1	< 1	3.7	< 1	0.53 J	< 2
	12/14/2016	<10	<1	<10	<1	5.9	<1	<1	27	0.62 J	3.4	1.5	0.77 J	0.47 J	1.1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	0.52 J	<2
UAW23-20	10/12/2001	11 J	<20	<200	<20	<20	67	<20	<10	<10	<10	20	660	<20	25	<10	<20	<20	<20	<20	<200	82	<20	51	6.3 J	8.4 J	<20	<40	<20
	11/14/2001	<200	<20	<200	<20	<20	60	<20	<10	<10	<10	17 J	510	<20	21	<10	<20	<20	15 J B	<20	<200	61	<20	50	<20	8.8 J	<20	<40	<20

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
	10/19/2002	<12	<1.2	NA	<1.2	<1.2	31	NA	<10	NA	<10	11	34	<1.2	NA	NA	<1.2	NA	0.45 J B	<1.2	NA	NA	<1.2	NA	NA	7.2	NA	NA	<1.2
	11/13/2003	<17	<1.7	<17	<1.7	<1.7	7.7	<1.7	<10	<10	<10	10	20	<1.7	11	<0.84	<1.7	<1.7	<1.7	<1.7	<17	40	<1.7	22	2.9	5	2.2	<1.7	<1.7
	3/28/2004	<14	<1.4	<14	<1.4	<1.4	8	<1.4	<10	<10	<10	10	21	<1.4	10	0.84	<1.4	<1.4	<1.4	<1.4	<14	39	<1.4	20	2.6	4.5	2.4	<1.4	<1.4
	11/5/2004	<10	0.25 J B	<10	<1	<1	5.4	<1	<10	<10	<10	9.1	5.6	2.8	9.3	0.6	<1	<1	<1	<1	<10	47	<1	16	2.6	5.1	<1	<1	<1
	11/14/2005	<14	<1.4	<14	<1.4	<1.4	29	<1.4	<1.4	<1.4	<1.4	5.9	0.52 J	0.59 J	6.8	0.62 J	<1.4	<1.4	<1.4	<1.4	<14	39	<1.4	13	2.7	3.8	1.4	<1.4	<1.4
	11/6/2006	< 10	< 1	< 10	< 1	< 1	37	< 1	< 1	< 1	< 1	5.8	0.32 J	0.38 J	6.6	0.85	< 1	< 1	< 1	< 1	< 10	27	< 1	14	2.6	3.8	1.9	< 1	< 1
	11/13/2007	< 10	< 1	< 10	< 1	< 1	28	< 1	< 1	< 1	< 1	4.2	0.36 J	1.5	5.2	0.47 J	< 1	< 1	< 1	< 1	< 10	25	< 1	9	2.3	3.5	1.1	< 1	< 1
	11/13/2008	< 17	< 1.7	< 17	< 1.7	< 1.7	45	< 1.7	< 1.7	< 1.7	< 1.7	4.6	< 1.7	0.86 J	4.2	0.66 J	< 1.7	< 1.7	< 1.7	< 1.7	< 17	22	< 1.7	10	2.2	2.5	1.1 J	< 1.7	< 1.7
	11/24/2009	< 10	< 1	< 10	< 1	< 1	27	< 1	< 1	< 1	< 1	4.6	0.28 J	0.19 J	4.1	0.77	< 1	< 1	< 1	< 1	< 10	26	< 1	9.3	1.9	3.2	1.1	< 1	< 1
	11/17/2010	< 10	< 1	< 10	< 1	< 1	9.5 U	< 1	< 1	< 1	< 1	3.9	0.27 J	0.51 J	3.2	0.58	< 1	< 1	< 1	< 1	< 10	19	< 1	8.2	1.7	2.4	0.95 J	< 1	< 1
	12/10/2012	< 10	< 1	< 10	< 1	< 1	24	< 1	< 1	< 1	< 1	4.2	0.24 J	0.62 J	2.5	0.76 J	< 1	< 1	< 1	< 1	< 10	17	0.13 J	6.7	2.3	1.8	0.97 J	< 1	< 2
	12/13/2016	<10	<1	<10	<1	<1	4.8	<1	<1	<1	<1	5.1	<1	0.49 J	2.7	0.57 J	<1	<1	<1	<1	<10	10	<1	7.3	0.61 J	1.7	0.65 J	<1	<2
UAW24-70	10/13/2001	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	11/15/2001	2.9 J B	<1	<10	1.5	<1	<1	<1	<10	<10	<10	<1	0.65 J	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<2	<1
	10/17/2002	<10	<1	NA	0.55 J	<1	<1	NA	<10	NA	<10	<1	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	0.48 J	NA	NA	NA	NA	NA	<1
	11/16/2003	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	4/5/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/6/2004	<10	<1	0.5 J	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/16/2005	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	10/31/2006	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	0.31 J	< 1	< 1	< 1	< 1	< 1	< 1
	11/7/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.26 J	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/13/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/24/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/22/2010	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/13/2012	10 U	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
	12/15/2016	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW25-20	10/13/2001	1.5 J B	0.6 J	0.48 J	<1	9	<1	<1	11	<10	3 J	0.28 J	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	0.61 J	<1	<1	<1	<1	<2	<1
	11/13/2001	2.3 J	0.33 J	<10	<1	11	<1	<1	11	<10	3.2 J	0.17 J	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	0.77 J	<1	<1	<1	<1	<2	<1
	10/18/2002	<10	<1	NA	<1	18	<1	NA	5.6 J	NA	1.7 J	0.5 J	<1	NA	NA	NA	<1	NA	<1	<1	NA	NA	<1	NA	NA	NA	NA	NA	<1
	11/12/2003	<10	<1	<10	<1	11	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	3/27/2004	<10	<1	<10	<1	8	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/3/2004	0.79 J	<1	<10	<1	7.9	<1	1.2	6.4 J	<10	2.4 J	<1	<1	<1	<0.5	<0.5	<1	0.57 J	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	0.48 J
	11/9/2005	<10	<1	<10	<1	6	<1	<1	10	0.42 J	3.3	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/8/2006	< 10	< 1	< 10	< 1	6.4	< 1	< 1	11	0.42 J	3.3	< 1	0.95 J	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	0.19 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/8/2007	< 10	< 1	< 10	< 1	4.8	< 1	< 1	13	0.46 J	3.9	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/3/2008	< 10	< 1	< 10	< 1	2.5	< 1	< 1	11	0.36 J	3.3	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/12/2009	< 10	< 1	< 10	< 1	2.6	< 1	< 1	14	0.4 J	3.7	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/12/2010	< 10	< 1	< 10	< 1	3.8	< 1	< 1	12	0.4 J	3.3	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/29/2012	< 10	< 1	< 10	< 1	0.6 J	< 1	< 1	3.8	0.16 J	1.2	0.21 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
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Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
	12/6/2016	<10	<1	<10	<1	0.39 J	<1	<1	1.8	<1	0.72 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW26-70	4/6/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/6/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/10/2005	<10	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	0.21 J	<1	<1	<1	<1	<1	<1
	11/7/2006	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/14/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/19/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/17/2010	1.1 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	12/3/2012	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
	12/8/2016	<10	<1	<10	<1	<1	<1	<1	1.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
UAW27-50	3/31/2004	<10	<1	<10	<1	<1	<1	<1	<10	<10	<10	10	<1	<1	5.2	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
	11/5/2004	<10	<1	<10	<1	<1	0.42 J	<1	<10	<10	<10	9.9	0.52 J	0.66 J	5.4	<0.5	<1	<1	<1	<1	<10	<1	<1	0.98 J	<1	<1	<1	<1	<1
	11/11/2005	<10	<1	<10	<1	<1	0.51 J	<1	<1	<1	<1	10	0.58 J	0.79 J	7.1	0.27 J	<1	<1	<1	<1	<10	<1	<1	1.6	<1	<1	<1	<1	<1
	11/1/2006	< 10	< 1	< 10	< 1	< 1	0.33 J	< 1	< 1	< 1	< 1	6.4	0.4 J	0.54 J	5.5	0.24 J	< 1	< 1	< 1	< 1	< 10	< 1	0.41 J	1.1	< 1	< 1	< 1	< 1	< 1
	11/13/2007	< 10	< 1	< 10	< 1	< 1	0.46 J	< 1	< 1	< 1	< 1	6.4	0.52 J	0.77 J	8.7	0.22 J	< 1	< 1	< 1	< 1	< 10	< 1	< 1	1.9	< 1	< 1	< 1	< 1	< 1
	11/13/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	13	0.64 J	2.5	17	0.66	< 1	< 1	< 1	< 1	< 10	< 1	< 1	7.2	0.27 J	< 1	< 1	< 1	< 1
	11/11/2009	< 10	< 1	< 10	< 1	< 1	0.77 J	< 1	< 1	< 1	< 1	12	0.76 J	1.9	18	0.67	< 1	< 1	< 1	< 1	< 10	< 1	< 1	9.1	0.34 J	< 1	< 1	< 1	< 1
	11/22/2010	< 10	< 1	< 10	< 1	< 1	0.77 J	< 1	< 1	< 1	< 1	11	0.79 J	2	17	0.61	< 1	< 1	< 1	< 1	< 10	< 1	< 1	9.6	0.37 J	0.37 J	< 1	< 1	< 1
	12/14/2012	< 10	< 1	1.6 J	< 1	< 1	0.59 J	< 1	< 1	< 1	< 1	8.4	0.61 J	2	16	0.65 J	< 1	< 1	< 1	< 1	< 10	< 1	< 1	8.6	< 1	0.74 J	< 1	< 1	< 2
	12/15/2016	<10	<1	<10	<1	<1	0.38 J	<1	<1	<1	<1	4.3	0.48 J	0.77 J	11	0.44 J	<1	<1	<1	<1	<10	<1	<1	5.8	0.38 J	1.4	<1	<1	<2
LAW05-150	3/16/2002	<200	<20	<200	<20	<20	<20	NA	<10	<10	<10	25	450	<20	26	4 J	<20	NA	<20	NA	<100	<20	<20	<20	<20	<20	NA	<40	<20
LAW05-150 (Dup)	3/16/2002	<200	<20	<200	<20	<20	<20	NA	<10	<10	<10	24	450	<20	26	4.6 J	<20	NA	<20	NA	<100	<20	<20	<20	<20	<20	NA	<40	<20
	11/17/2009	< 10	< 1	< 10	0.23 J	< 1	< 1	< 1	0.15 J	< 1	0.13 J	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
LAW05-60	3/16/2002	5.5 J	<2.9	<29	<2.9	<2.9	1 J	NA	<10	<10	<10	46	<2.9	9.8	64	3.5	<2.9	NA	<2.9	NA	<14	<2.9	<2.9	<2.9	<2.9	<2.9	NA	0.78 J	<2.9
	11/17/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	13	< 1	2.9	28	2.2	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	0.94 J	< 1
LAW12-60	10/13/2001	0.55 J B	<1	<10	<1	0.14 J	<1	NA	<10	<10	<10	2.3	4.6	<1	5.3	0.73	<1	NA	<1	NA	<5	<1	<1	<1	<1	<1	NA	0.2 J	<1
	11/16/2001	1.5 J	<1	<10	<1	<1	<1	NA	<10	<10	<10	2.5	4.8	<1	5.1	0.68	<1	NA	<1	NA	<5	<1	<1	<1	<1	<1	NA	<2	<1
	11/19/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	0.33 J	< 1	< 1	1.5	3.6	< 1	0.8	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
CINEB-1	11/11/2005	5.5 J B	<1	0.71 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1
5CINTB-1	11/15/2005	5.7 J B	<1	0.8 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	0.9 J	<1	<1	<1	<1	<1	<1	<1	<1
8CINTB-1	11/8/2005	8.6 J	<1	0.83 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	0.73 J	<1	<1	<1	<1	<1	<1	<1	<1
9CINTB-1	11/9/2005	8.4 J	<1	0.88 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	0.69 J	<1	<1	<1	<1	<1	<1	<1	<1
10CINTB-1	11/10/2005	1.1 J	<1	0.45 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	0.69 J	<1	<1	<1	<1	<1	<1	<1	<1
6CINTB-1	11/16/2005	3.2 J	<1	0.48 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	0.51 J	<1	<1	<1	<1	<1	<1	<1	<1
4CINTB-1	11/14/2005	9.2 J	<1	0.82 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	0.62 J	<1	<1	<1	<1	<1	<1	<1	<1
11CINTB-1	11/11/2005	4.8 J B	<1	0.65 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	0.73 J	<1	<1	<1	<1	<1	<1	<1	<1

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
20061102CINEB-1	11/2/2006	13 B	< 1	2.2 J	0.4 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20061106CINEB-1	11/6/2006	11	< 1	2.2 J	0.78 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20061106CINFB-1	11/6/2006	15	< 1	2.6 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20061106TB-1	11/6/2006	3.8 J	< 1	0.61 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20061106TB-2	11/6/2006	3.7 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20061107TB-3	11/7/2006	4.1 J	< 1	0.62 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20061108CINFB-1	11/8/2006	12 B	< 1	2.1 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20061108TB-4	11/8/2006	3.5 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20061108TB-5	11/8/2006	3.5 J	< 1	0.41 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20071107CINEB-1	11/7/2007	3 J	< 1	< 10	1.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20071107CINFB-1	11/7/2007	3.9 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20071109CINTB-1	11/9/2007	1.5 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20071109CINTB-2	11/9/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20071114CINTB-1	11/14/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20071115CINEB-2	11/15/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20071115CINFB-2	11/15/2007	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20071116CINTB-1	11/16/2007	2.4 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20071119CINTB-1	11/19/2007	2.5 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20081104CINEB-1	11/4/2008	5.9 J	< 1	0.74 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20081104CINTB-1	11/4/2008	1.8 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20081105CINTB-1	11/5/2008	3.5 J B	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20081107CINTB-1	11/7/2008	1.3 J	< 1	0.69 J B	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20081111CINTB-1	11/11/2008	2.3 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20081113CINFB-1	11/13/2008	8.8 J	< 1	< 10	< 1	< 1	0.28 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20081113CINFB-1	11/13/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20081114CINEB-1	11/14/2008	14	< 1	< 10	< 1	< 1	0.3 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20081114CINTB-1	11/14/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20081117CINTB-1	11/17/2008	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20081118CINEB-1	11/18/2008	14	< 1	< 10	< 1	< 1	0.28 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20091113TB-1	11/13/2009	4.3 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20091117CINEB-1	11/17/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20091117TB-1	11/17/2009	2.6 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20091120CINFB-1	11/20/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20091120TB-1	11/20/2009	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20091123CINEB-1	11/23/2009	12	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20091124TB-1	11/24/2009	4.5 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20101118CINEQBLK-1	11/18/2010	< 10	< 1	< 10	< 1	< 1	1.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20101129CINFB-1	11/29/2010	< 10	< 1	< 10	< 1	< 1	1.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
20101130CINEQBLK-2	11/30/2010	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Table B-1
Summary of Volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Acetone	Benzene	2-Butanone	Carbon disulfide	Chlorobenzene	Chloroform	Cyclohexane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	Methylene chloride	Methylcyclohexane	4-Methyl-2-pentanone	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl chloride	Xylenes (total)
Groundwater																													
20121207CINEQBLK	12/7/2012	2.2 J	< 1	< 10	< 1	< 1	0.6 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
20121207CINFB-1	12/7/2012	< 10	< 1	< 10	< 1	< 1	0.47 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
20121207TRIP BLANKS	12/7/2012	15	< 1	0.72 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.42 J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
20121212TRIP BLANK	12/12/2012	< 10	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
20121213CINRB-2	12/13/2012	2.9 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
20121214TRIP BLANK	12/14/2012	2.7 J	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2
20161202CINFB-1	12/2/2016	<10	<1	<10	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	0.43 J	<1	<1	<1	<1	<1	<2
20161202TRIP BLANK	12/2/2016	<10	<1	<10	<1	0.42 J	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
20161205TRIP BLANK	12/5/2016	<10	<1	<10	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
20161208TRIPBLANK	12/8/2016	<10	<1	<10	<1	0.63 J	<1	<1	1.7	NA	0.66 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
20161209TRIP BLANK	12/9/2016	<10	<1	<10	<1	0.36 J	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
20161213CINRB-1	12/13/2016	<10	<1	<10	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
20161213TRIP BLANK	12/13/2016	<10	<1	<10	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
20161214TRIP BLANK	12/14/2016	<10	<1	<10	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2
20161215CINRB-2	12/15/2016	<10	<1	<10	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<2

Notes:
J = Estimated result; result is less than reporting limit.
B = Method blank contamination. The asociated method blank contains the target analyte at a reportab
U = Not detected at the at or above the indicated detection limit.
NA indicates chemical was not on the target analyte list for that sample.
<5 = Indicates constituent not detected at or above indicated detection limit.

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Aniline	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzo(a)anthracene	Benzo(e)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Benzaldehyde	1,1'-Biphenyl	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl) phthalate	4-Bromophenyl phenl ether	Butyl benzyl phthalate	Caprolactam	Carbazole	4-Chloroaniline	4-Chloro-3-methylphenol	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenyl phenyl ether	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate	Di-n-butyl phthalate	4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octyl phthalate
Groundwater																																									
MW-EPA-1	5/8/2001	NA	<120										<120	<120			<120		<120	<120	<120				<120						<120		<120	<120						
	11/15/2001	NA	<200										<200	<200			<200		<200	<200	<200				<200						<200		<200	<200						
	10/20/2002	<1000	NA										<1000	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/12/2003	<500	<500										<500	<500			<500		<500	<500	<500				<500						<500		<500	<500						
	3/28/2004	<500	<500										<500	<500			<500		<500	<500	<500				<500						<500		<500	<500						
	11/4/2004	28 J	<500										<500	<500			<500		<500	<500	<500				<500						<500		<500	<500						
	11/15/2005	37	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	3.2 J	<10	<10	<10	1.7 U	<10	<10	3.6 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	0.96 J	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/8/2006	36 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	16 J	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 50	< 50	< 50
	11/19/2007	42 J	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 1000	< 200	< 200	< 200	< 200	< 200	< 1000	< 1000	< 200	< 200	< 200
	11/6/2008	65	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	15 J	< 20	< 20	< 20	< 20	< 100	3.3 J	< 20	< 20	< 20	< 20	< 100	< 100	< 20	< 20	< 20
	11/20/2009	31 J	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	19 J	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	14 J	< 100	< 100	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 100	< 100	< 100
	11/19/2010	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	9.2 J	< 200	< 200	< 200	< 200	< 1000	< 200	< 200	< 200	< 200	< 200	< 1000	< 1000	< 200	< 200	< 200
	12/12/2012	46	< 0.21	< 0.21	< 1	< 0.21	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	10	< 1	< 1	< 1	< 2.1	< 2.1	< 1	< 5.2	< 1	< 2.1	< 2.1	< 1	4.7	< 2.1	< 0.21	< 0.21	< 1	< 5.2	< 2.1	< 1	< 2.1	< 1	< 1	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2	< 1
	12/13/2016	130	<0.21	<0.21	<5.4	<<0.21	<11	<1.1	<1.1	<1.1	<1.1	<1.1	<11	<5.4	<5.4	<5.4	<11	<11	<5.4	<27	<5.4	<11	<11	<5.4	9.8	<11	<1.1	<1.1	<5.4	<27	<11	<5.4	<11	<5.4	<5.4	<27	<220	<27	<27	<5.4
MW-EPA-2	5/8/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/14/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/20/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/11/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	3/29/2004	<10	<10										<10	<10			34		<10	<10	<10				<10						<10		<10	<10						
	11/4/2004	<10	<10										<10	<10			<10		<10	1.7 J	<10				<10						<10		<10	<10						
	11/11/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.78 U	<10	<10	3.2 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/9/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/19/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/17/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/23/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/18/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	2.1 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/10/2012	< 5	< 0.2	< 0.2	< 0.99	< 0.2	< 0.99	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.99	< 0.99	< 0.99	< 0.99	0.94 J	< 2	< 0.99	< 5	< 0.99	< 2	< 2	< 0.99	< 0.99	< 2	< 0.2	< 0.2	< 0.99	< 5	< 2	< 0.99	< 2	< 0.99	< 0.99	< 5	< 5	< 5	< 5	< 0.99
	12/14/2016	<5.2	<0.21	<0.21	<1	<0.21	<2.1	<0.21	<0.21	<0.21	<0.21	<0.21	<2.1	<1	<1	<1	<2.1	<2.1	<1	<5.2	<1	<2.1	<2.1	<1	<1	<2.1	<0.21	<0.21	<1	<5.2	<2.1	<1	<2.1	<1	<1	<5.2	<42	<5.2	<5.2	<1
MW-EPA-3	5/6/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/13/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/17/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/13/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	3/30/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/4/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/11/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.48 U	<10	<10	1.6 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/7/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/14/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/11/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/23/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/23/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/7/2012	< 5	< 0.2	< 0.2	< 0.99	< 0.2	< 0.99	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.99	< 0.99	< 0.99	< 0.99	< 2	< 2	< 0.99	< 5	< 0.99	< 2	< 2	< 0.99	< 0.99	< 2	< 0.2	< 0.2	< 0.99	< 5	< 2	< 0.99	< 2	< 0.99	< 0.99	< 5	< 5	< 5	< 5	< 0.99
	12/14/2016	<5	<0.2	<0.2	<1	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<1	<1	<1	<2	<2	<1	<5	<1	<2	<2	<1	<1	<2	<0.2	<0.2	<1	<5	<2	<1	<2	<1	<1	<5	<40	<5	<5	<1
MW-EPA-4	5/8/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/13/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/18/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/16/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	4/6/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/6/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/10/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.65 U	<10	<10	1.2 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/7/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/14/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	14	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/6/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/19/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/17/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/3/2012	< 4.9	< 0.19	< 0.19	< 0.97	< 0.19	< 0.97	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.97	< 0.97	< 0.97	< 0.97	< 1.9	< 1.9	< 0.97	< 4.9	< 0.97	< 1.9	< 1.9	< 0.97	< 0.97	< 1.9	< 0.19	< 0.19	< 0.97	< 4.9	< 1.9	< 0.97	< 1.9	< 0.97	< 0.97	< 4.9	< 4.9	< 4.9	< 4.9	< 0.97
	12/8/2016	<4.6	<0.19	<0.19	<0.93	<0.19	<1.9	<0.19	<0.19	<0.19	<0.19	<0.19	<1.9	<0.93	<0.93	<0.93	<1.9	<1.9	<0.93	<4.6	<0.93	<1.9	<1.9	<0.93	<0.93	<1.9	<0.19	<0.19	<0.93	<4.6	<1.9	<0.93	<1.9	<0.93	<0.93	<4.6	<37	<4.6	<0.93	<0.93
Recovery Well	7/29/2001	4.6 J	<10										NA	NA			<10		<10	NA	NA				<10						<10		<10	<10						
UAW01-30	5/4/2001	NA	<10										<10	<10			3.4 J		<10	<10	<10				<10						<10		<10	<10						
	11/8/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/17/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(123-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitrosodi-n-propyl-amine	N-Nitrosodiphenylamine	2,2'-oxybis(1-Chloropropane)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane
Groundwater																																	
MW-EPA-1	5/8/2001		<120							<120	<120	<120	<120												<120				<120	940	<120	160	NA
	11/15/2001		<200							<200	<200	<200	<200												<200				<200	1700	35 J	260	NA
	10/20/2002		NA							NA	<1000	<1000	NA												NA				NA	1900	NA	300 J	NA
	11/12/2003		<500							<500	<500	<500	<500												<500				<500	1700	<500	<500	NA
	3/28/2004		<500							<500	<500	<500	<500												<500				<500	1300	<500	<500	NA
	11/4/2004		<500							<500	<500	<500	<500												<500				<500	1100	35 J	250 J	NA
	11/15/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<56	1000	33 J	220	NA
	11/8/2006	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	11 J	< 250	< 250	< 250	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA
	11/19/2007	< 200	< 200	< 200	< 200	< 1000	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 1000	< 1000	< 1000	< 200	< 200	< 1000	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	NA	NA	NA	NA	NA
	11/6/2008	< 20	< 20	< 20	< 20	< 100	< 20	< 20	< 20	< 20	< 20	< 20	12 J	< 100	< 100	< 100	< 20	< 20	< 100	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	NA	NA	NA	NA	NA
	11/20/2009	< 100	< 100	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 500	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	8.5 J	< 100	< 100	< 100	NA	NA	NA	NA	NA
	11/19/2010	< 200	< 200	< 200	< 200	< 1000	< 200	< 200	< 200	< 200	< 200	< 200	5 J	< 1000	< 1000	< 1000	< 200	< 200	< 1000	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	NA	NA	NA	NA	NA
	12/12/2012	< 0.21	< 0.21	< 0.21	< 1	< 10	< 1	< 0.21	< 1	< 0.21	< 1	< 2.1	< 0.21	< 2.1	< 2.1	< 2.1	< 1	< 2.1	< 5.2	< 1	< 1	< 1	< 5.2	< 0.21	0.79 J	< 0.21	< 5.2	< 5.2	NA	NA	NA	NA	NA
	12/13/2016	3.7 J	<1.1	<5.4	<5.4	<54	<5.4	<1.1	<5.4	1.6 J	<5.4	8.3 J	11 J	<11	<11	<11	<5.4	<11	<27	<5.4	<5.4	<5.4	<220	9.1 J	3.8 J	9.3 J	<27	<27	NA	NA	NA	NA	NA
MW-EPA-2	5/8/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/14/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/20/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
	11/11/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	3/29/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/4/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/11/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<2	<2	<2	<2	NA
	11/9/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/19/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/17/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/23/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/18/2010	0.24 J	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	0.2 J	< 10	< 10	NA	NA	NA	NA	NA
	12/10/2012	< 0.2	< 0.2	< 0.2	< 0.99	< 9.9	< 0.99	< 0.2	< 0.99	< 0.2	< 0.99	< 2	< 0.2	< 2	< 2	< 2	< 0.99	< 2	< 5	< 0.99	< 0.99	< 0.99	< 5	< 0.2	< 0.99	< 0.2	< 5	< 5	NA	NA	NA	NA	NA
	12/14/2016	<0.21	<0.21	<1	<1	<10	<1	<0.21	<1	<0.21	<1	<2.1	<0.21	<2.1	<2.1	<2.1	<1	<2.1	<5.2	<1	<1	<1	<42	<0.21	<1	<0.21	<5.2	<5.2	NA	NA	NA	NA	NA
MW-EPA-3	5/6/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/13/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/17/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
	11/13/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	3/30/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/4/2004		<10							<10	<10	<10	<10												<10				<1	<1	<1	<1	NA
	11/11/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	11/7/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/14/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
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	11/23/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/23/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/7/2012	< 0.2	< 0.2	< 0.2	< 0.99	< 9.9	< 0.99	< 0.2	< 0.99	< 0.2	< 0.99	< 2	< 0.2	< 2	< 2	< 2	< 0.99	< 2	< 5	< 0.99	< 0.99	< 0.99	< 5	< 0.2	< 0.99	< 0.2	< 5	< 5	NA	NA	NA	NA	NA
	12/14/2016	<0.2	<0.2	<1	<1	<10	<1	<0.2	<1	<0.2	<1	<2	<0.2	<2	<2	<2	<1	<2	<5	<1	<1		<40	<0.2	<1	<0.2	<1	<5	<5	NA	NA	NA	NA
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	11/13/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/18/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
	11/16/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	4/6/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/6/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/10/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	11/7/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/14/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/6/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/19/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/17/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/3/2012	< 0.19	< 0.19	< 0.19	< 0.97	< 9.7	< 0.97	< 0.19	< 0.97	< 0.19	< 0.97	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.97	< 1.9	< 4.9	< 0.97	< 0.97	< 0.97	< 4.9	< 0.19	< 0.97	< 0.19	< 4.9	< 4.9	NA	NA	NA	NA	NA
	12/8/2016	<0.19	<0.19	<0.93	<0.93	<9.3	<0.93	<0.19	<0.93	<0.19	<0.93	<1.9	<0.19	<1.9	<1.9	<1.9	<0.93	<1.9	<4.6	<0.93	<0.93	<0.93	<37	<0.19	<0.93	<0.19	<4.6	<4.6	NA	NA	NA	NA	NA
Recovery Well	7/29/2001		<10							<10	<10	<10	<10												<10				<10	2.4 J	<10	<10	<10
UAW01-30	5/4/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/8/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/17/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Aniline	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzo(a)anthracene	Benzo(e)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Benzaldehyde	1,1'-Biphenyl	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl) phthalate	4-Bromophenyl phenl ether	Butyl benzyl phthalate	Caprolactam	Carbazole	4-Chloroaniline	4-Chloro-3-methylphenol	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenyl phenyl ether	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate	Di-n-butyl phthalate	4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octyl phthalate
Groundwater																																								
	11/11/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	3/24/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/3/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/8/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.2 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/1/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/8/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/5/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/12/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/16/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.2 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/29/2012	< 4.9	< 0.19	< 0.19	< 0.97	< 0.19	< 0.97	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.97	< 0.97	< 0.97	< 0.97	< 1.9	< 1.9	< 0.97	< 4.9	< 0.97	< 1.9	< 1.9	< 0.97	< 0.97	< 1.9	< 0.19	< 0.19	< 0.97	< 4.9	< 1.9	< 0.97	< 1.9	< 0.97	< 0.97	< 4.9	< 4.9	< 4.9	< 4.9	< 0.97
	12/6/2016	<5.2	<0.21	<0.21	<1	<0.21	<2.1	<0.21	<0.21	<0.21	<0.21	<0.21	<2.1	<1	<1	<1	<2.1	<2.1	<1	2.6 J	<1	<2.1	<2.1	<1	<1	<2.1	<0.21	<0.21	<1	<5.2	<2.1	<1	<2.1	<1	<0.45	<5.2	<42	<5.2	<5.2	<1
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	11/6/2004	<10	<10										<10	<10			1.5 J B		<10	<10	<10				<10						<10		<10	<10						
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	11/5/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/12/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/16/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/29/2012	< 4.9	< 0.19	< 0.19	< 0.97	< 0.19	< 0.97	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.97	< 0.97	< 0.97	< 0.97	< 1.9	< 1.9	< 0.97	< 4.9	< 0.97	< 1.9	< 1.9	< 0.97	< 0.97	< 1.9	< 0.19	< 0.19	< 0.97	< 4.9	< 1.9	< 0.97	< 1.9	< 0.97	< 0.97	< 4.9	< 4.9	< 4.9	< 4.9	< 0.97
	12/6/2016	<5.4	<0.22	<0.22	<0.22	<0.22	<2.2	<0.22	<0.22	<0.22	<0.22	<0.22	<2.2	<1.1	<1.1	<1.1	<2.2	<2.2	<1.1	3.3 J	<1.1	<2.2	<2.2	<1.1	<1.1	<2.2	<0.22	<0.22	<1.1	<5.4	<2.2	<1.1	<2.2	<1.1	<0.55	<5.4	<43	<5.4	<5.4	<1.1
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	10/17/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
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	11/3/2004	1.5 J	<10										<10	<10			3.2 J B		<10	<10	<10				<10						<10		<10	<10						
	11/9/2005	0.69 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.3 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/3/2006	1 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.5 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
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	11/7/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
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	12/7/2016	<4.6	<0.19	<0.19	<0.93	<0.19	<1.9	<0.19	<0.19	<0.19	<0.19	<0.19	<1.9	<0.93	<0.93	<0.93	<1.9	<1.9	<0.93	<4.6	<0.93	<1.9	<1.9	<0.93	<0.93	<1.9	<0.19	<0.19	<0.93	<4.6	<1.9	<0.93	<1.9	<0.93	<0.93	<4.6	<37	<4.6	<4.6	<0.93
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	10/17/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/20/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	4/12/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
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	11/9/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/18/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/12/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
UAW02-40 Dup	11/12/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/12/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/5/2012	< 4.8	< 0.19	< 0.19	< 0.96	< 0.19	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 0.96	< 0.96	< 0.96	1.1 J	< 1.9	< 0.96	< 4.8	< 0.96	< 1.9	< 1.9	< 0.96	< 0.96	< 1.9	< 0.19	< 0.19	< 0.96	< 4.8	< 1.9	< 0.96	< 1.9	< 0.96	< 0.96	< 4.8	< 4.8	< 4.8	< 4.8	< 0.96
UAW02-40 Dup	12/5/2012	< 4.8	< 0.19	< 0.19	< 0.97	< 0.19	< 0.97	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.97	< 0.97	< 0.97	< 0.97	1 J	< 1.9	< 0.97	< 4.8	< 0.97	< 1.9	< 1.9	< 0.97	< 0.97	< 1.9	< 0.19	< 0.19	< 0.97	< 4.8	< 1.9	< 0.97	< 1.9	< 0.97	< 0.97	< 4.8	< 4.8	< 4.8	< 4.8	< 0.97
	12/7/2016	<5.2	<0.21	<0.21	<1	<0.21	<2.1	<0.21	<0.21	<0.21	<0.21	<0.21	<2.1	<1	<1	<1	<2.1	<2.1	<1	1.8 J	<1	<2.1	<2.1	<1	<1	<2.1	<0.21	<0.21	<1	<5.2	<2.1	<1	<2.1	<1	<1	<5.2	<42	<5.2	<5.2	<1
UAW02-40 Dup	12/7/2016	<5.4	<0.22	<0.22	<1.1	<0.22	<2.2	<0.22	<0.22	<0.22	<0.22	<0.22	<2.2	<1.1	<1.1	<1.1	<2.2	<2.2	<1.1	2.3 J	<1.1	<2.2	<2.2	<1.1	<1.1	<2.2	<0.22	<0.22	<1.1	<5.4	<2.2	<1.1	<2.2	<1.1	<0.52	<5.4	<43	<5.4	<5.4	<1.1
UAW03-20	5/7/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/11/2001	NA	<20										<20	<20			<20		<20	<20	<20				<20						<20		<20	<20						
	10/23/2002	11 J	NA										<67	NA			NA		NA	NA	NA				NA						NA		NA	NA						

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(123-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitrosodi-n-propyl-amine	N-Nitrosodiphenylamine	2,2'-oxybis(1-Chloropropane)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane
Groundwater																																	
	11/11/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	3/24/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/3/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/8/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	11/1/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/8/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/5/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/12/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/16/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/29/2012	< 0.19	< 0.19	< 0.19	< 0.97	< 9.7	< 0.97	< 0.19	< 0.97	< 0.19	< 0.97	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.97	< 1.9	< 4.9	< 0.97	< 0.97	< 0.97	< 4.9	< 0.19	< 0.97	< 0.19	< 4.9	< 4.9	NA	NA	NA	NA	NA
	12/6/2016	<0.21	<0.21	<1	<1	<10	<1	<0.21	<1	<0.21	<1	<2..1	<0.21	<2.1	<2.1	<2.1	<1	<2.1	<5.2	<1	<1	<1	<42	<0.21	<1	<0.21	<5.2	<5.2	NA	NA	NA	NA	NA
UAW01-80	5/12/2001		<10							<0.050	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/15/2001		<10							<0.050	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/19/2003		<10							<0.050	<10	<10	<10												<10				<10	<10	<10	<10	NA
	4/10/2004		<67							<0.050	<67	<67	<10												<67				<67	<67	<67	<67	NA
	11/6/2004		<10							<0.050	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/8/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	11/1/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	0.45 J	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/8/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/5/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/12/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/16/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/29/2012	< 0.19	< 0.19	< 0.19	< 0.97	< 9.7	< 0.97	< 0.19	< 0.97	< 0.19	< 0.97	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.97	< 1.9	< 4.9	< 0.97	< 0.97	< 0.97	< 4.9	< 0.19	< 0.97	< 0.19	< 4.9	< 4.9	NA	NA	NA	NA	NA
	12/6/2016	<0.22	<0.22	<1.1	<1.1	<11	<1.1	<0.22	<1.1	<0.22	<1.1	<2.2	<0.22	<2.2	<2.2	<2.2	<1.1	<2.2	<5.4	<1.1	<1.1	<1.1	<43	<0.22	<1.1	<0.22	<5.4	<5.4	NA	NA	NA	NA	NA
UAW02-20	5/7/2001		<10							<10	<10	<10	<10												<10				<10	12	<10	3.7 J	NA
UAW02-20 Dup	5/7/2001		<10							<10	<10	<10	<10												<10				<10	11	<10	3.5 J	NA
	11/10/2001		<10							<10	<10	<10	<10												<10				<10	12	<10	4.1 J	NA
	10/17/2002		NA							NA	<10	<10	NA												NA				NA	5.1 J	NA	1.7 J	NA
	11/12/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	3/26/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/3/2004		<10							<10	<10	<10	<10												<10				<10	10	<10	3.8 J	NA
	11/9/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	15	0.61 J	6.1	NA
	11/3/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/9/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	1.6 J	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/7/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/12/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/12/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/5/2012	< 0.2	< 0.2	< 0.2	< 1	< 10	< 1	< 0.2	< 1	< 0.2	< 1	< 2	< 0.2	< 2	< 2	< 2	< 1	< 2	< 5	< 1	< 1	< 1	< 5	< 0.2	< 1	< 0.2	< 5	< 5	NA	NA	NA	NA	NA
	12/7/2016	<0.19	<0.19	<0.93	<0.93	<9.3	<0.93	<0.19	<0.93	<0.19	<0.93	<1.9	<0.19	<1.9	<1.9	<1.9	<0.93	<1.9	<4.6	<0.93	<0.93	<0.93	<37	<0.19	<0.93	<0.19	<4.6	<4.6	NA	NA	NA	NA	NA
UAW02-40	5/13/2001		<10							<0.050	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/14/2001		<10							<0.050	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/17/2002		NA							<0.050	<10	<10	<10												NA				NA	<10	NA	<10	NA
	11/20/2003		<10							<0.050	<10	<10	<10												<10				<10	<10	<10	<10	NA
	4/12/2004		<10							<0.050	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/6/2004		<10							<0.050	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/9/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1.7	<1.7	<1.7	<1.7	NA
	11/3/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
UAW02-40 Dup	11/3/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/9/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/18/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/12/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
UAW02-40 Dup	11/12/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/12/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/5/2012	< 0.19	< 0.19	< 0.19	< 0.96	< 9.6	< 0.96	< 0.19	< 0.96	< 0.19	< 0.96	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.96	< 1.9	< 4.8	< 0.96	< 0.96	< 0.96	< 4.8	< 0.19	< 0.96	< 0.19	< 4.8	< 4.8	NA	NA	NA	NA	NA
UAW02-40 Dup	12/5/2012	< 0.19	< 0.19	< 0.19	< 0.97	< 9.7	< 0.97	< 0.19	< 0.97	< 0.19	< 0.97	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.97	< 1.9	< 4.8	< 0.97	< 0.97	< 0.97	< 4.8	< 0.19	< 0.97	< 0.19	< 4.8	< 4.8	NA	NA	NA	NA	NA
	12/7/2016	<0.21	<0.21	<1	<1	<10	<1	<0.21	<1	<0.21	<1	<2.1	<0.21	<2.1	<2.1	<2.1	<1	<2.1	<5.2	<1	<1	<1	<42	<0.21	<1	<0.21	<5.2	<5.2	NA	NA	NA	NA	NA
UAW02-40 Dup	12/7/2016	<0.22	<0.22	<1.1	<1.1	<11	<1.1	<0.22	<1.1	<0.22	<1.1	<2.2	<0.22	<2.2	<2.2	<2.2	<1.1	<2.2	<5.4	<1.1	<1.1	<1.1	<43	<0.22	<1.1	<0.22	<5.4	<5.4	<5.4	NA	NA	NA	NA
UAW03-20	5/7/2001		<10							<10	<10	7.7 J #	<10												<10				<10	19	<10	3.3 J	NA
	11/11/2001		<20							<20	<20	<20	<20												<20				<20	140	3.5 J	19 J	NA
	10/23/2002		NA							NA	<67	<67	NA												NA				NA	190	NA	27 J	NA

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Aniline	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzo(a)anthracene	Benzo(e)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Benzaldehyde	1,1'-Biphenyl	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl) phthalate	4-Bromophenyl phenl ether	Butyl benzyl phthalate	Caprolactam	Carbazole	4-Chloroaniline	4-Chloro-3-methylphenol	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenyl phenyl ether	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate	Di-n-butyl phthalate	4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octyl phthalate
Groundwater																																									
	11/12/2003	<100	<100										<100	<100			<100		<100	<100	<100				<100						<100		<100	<100						
	3/28/2004	<100	<100										<100	<100			<100		<100	<100	<100				<100						<100		<100	<100						
	11/4/2004	6.2 J	<67										<67	<67			<67		<67	<67	<67				<67						<67		<67	<67						
UAW03-20 Dup	11/4/2004	5.2 J	<40										<40	<40			<40		<40	<40	<40				<40						<40		<40	<40						
	11/9/2005	1.5 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.57 U	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/6/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/13/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/4/2008	8.5 J	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	32	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 120	< 25	< 25	< 25	< 25	< 25	< 120	< 120	< 25	< 25	< 25
	11/16/2009	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 50	< 50	< 50
	11/18/2010	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 50	< 50	< 50
	11/30/2012	< 4.9	< 0.19	< 0.19	< 0.97	< 0.19	< 0.97	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	0.41 J	< 0.97	< 0.97	< 0.97	< 1.9	< 1.9	< 0.97	< 4.9	< 0.97	< 1.9	< 1.9	< 1.9	< 0.97	0.3 J	< 1.9	< 0.19	< 0.19	< 0.97	< 4.9	< 1.9	< 0.97	< 1.9	< 0.97	< 0.97	< 4.9	< 4.9	< 4.9	< 4.9	< 0.97
	12/7/2016	<5.4	<0.22	<0.22	<1.1	<0.22	<2.2	<0.22	<0.22	<0.22	<0.22	<0.22	<2.2	<1.1	<1.1	<1.1	<2.2	<2.2	<1.1	4.5 J	<1.1	<2.2	<2.2	<1.1	<1.1	<2.2	<0.22	<0.22	<1.1	<5.4	<2.2	<1.1	<2.2	<1.1	<0.5	<5.4	<43	<5.4	<5.4	<1.1
UAW04-20	5/7/2001	NA	<40										53	<40			<40		<40	<40	<40				<40						<40		<40	<40						
	11/11/2001	NA	<100										<100	<100			<100		<100	<100	<100				<100						<100		<100	<100						
	10/20/2002	410	NA										<120	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/12/2003	12	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	3/28/2004	<50	<50										<50	<50			<50		<50	<50	<50				<50						<50		<50	<50						
	11/3/2004	4.6 J	<50										<50	<50			<50		<50	<50	<50				<50						<50		<50	<50						
	11/9/2005	2.6 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.65 U	<10	<10	0.88 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/6/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
UAW04-20 Dup	11/6/2006	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 200	< 200	< 40	< 40	< 40
	11/3/2008	3.3 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.4 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/16/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/16/2010	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 50	< 50	< 50
	11/30/2012	2.5 J	< 0.19	< 0.19	< 0.96	< 0.19	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 0.96	< 0.96	< 0.96	< 1.9	< 1.9	< 0.96	< 4.8	< 0.96	< 1.9	< 1.9	< 1.9	< 0.96	< 0.96	< 1.9	< 0.19	< 0.19	< 0.96	< 4.8	< 1.9	< 0.96	< 1.9	< 0.96	< 0.96	< 4.8	< 4.8	< 4.8	< 4.8	< 0.96
	12/7/2016	<4.8	<0.19	<0.19	<0.96	<0.19	<1.9	<0.19	<0.19	<0.19	<0.19	<0.19	<1.9	<0.96	<0.96	<0.96	<1.9	<1.9	<0.96	1.7 J	<0.96	<1.9	<1.9	<0.96	<0.96	<1.9	<0.19	<0.19	<0.96	<4.8	<1.9	<0.96	<1.9	<0.96	<0.47	<4.8	<38	<4.8	<4.8	<0.96
UAW05-20	5/6/2001	NA	<100										<100	<100			<100		<100	<100	<100				<100						<100		<100	<100						
	10/10/2001	NA	<10										<10	<10			<10		<10	<10	<10				6.3 J						2.8 J		<10	<10						
	11/12/2001	NA	<100										<100	<100			<100		<100	<100	<100				<100						<100		<100	<100						
	10/20/2002	<200	NA										<200	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/10/2003	<50	<50										<50	<50			<50		<50	<50	<50				<50						<50		<50	<50						
	3/28/2004	<25	<25										<25	<25			<25		<25	<25	<25				<25						<25		<25	<25						
UAW05-20 Dup	3/28/2004	<40	<40										<40	<40			<40		<40	<40	<40				<40						<40		<40	<40						
	11/4/2004	10 J	<25										1.7 J	<25			<25		<25	<25	<25				<25						<25		<25	<25						
	11/14/2005	10 J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	3.7 J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<120	<25	<25	<25	<25	<25	<120	<120	<25	<25	<25
	11/9/2006	7.4 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	2.7 J	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/15/2007	28 J	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	5.5 J	< 25	< 25	< 25	< 25	< 25	< 25	2.8 J	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 120	< 25	< 25	< 25	< 25	< 25	< 120	< 120	< 25	< 25	< 25
	11/5/2008	29 J	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 100	< 100	< 100
	11/17/2009	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	7.2 J	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 100	< 100	< 100
	11/18/2010	41 J	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	9.8 J	< 100	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 100	< 100	< 100
	12/12/2012	75 J	< 0.5	< 0.5	< 2.5	< 0.5	< 2.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	6.4	< 2.5	< 2.5	< 2.5	< 5	< 5	< 2.5	< 12	< 2.5	< 5	< 5	< 2.5	1.8 J	< 5	< 0.5	< 0.5	< 2.5	< 12	< 5	< 2.5	< 5	< 2.5	< 2.5	< 12	< 12	< 12	< 12	< 2.5
UAW05-20 Dup	12/12/2012	110 J	< 0.79	< 0.79	< 4	< 0.79	< 4	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	8	< 4	< 4	< 4	< 7.9	< 7.9	< 4	< 20	< 4	< 7.9	< 7.9	< 4	5.4 J	< 7.9	< 0.79	< 0.79	< 4	< 20	< 7.9	< 4	< 7.9	< 4	< 4	< 20	< 20	< 20	< 20	< 4
	12/9/2016	16	<0.21	<0.21	<1	<0.21	<2.1	<0.21	<0.21	<0.21	<0.21	<0.21	9.2	<1	<1	<1	<2.1	<2.1	<1	<5.2	<1	<2.1	<2.1	<1	3	<2.1	<0.21	<0.21	<1	<5.2	<2.1	<1	<2.1	<1	<0.53	<5.2	<42	<5.2	<5.2	<1
UAW06-20	5/6/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/10/2001	NA	<25										<25	<25			<25		<25	<25	<25				<25						<25		<25	<25						
	11/13/2001	NA	6.4 J										<25	7.3 J			<25		<25	<25	<25				<25						<25		<25	<25						
	10/20/2002	37 J	NA										<50	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/12/2003	<100	<100										<100	<100			<100		<100	<100	<100				<100						<100		<100	<100						
	3/29/2004	<20	<20										<20	<20			<20		<20	<20	<20				<20						<20		<20	<20						
	11/4/2004	<40	<40										<40	<40			<40		<40	5.5 J	<40				<40						<40		<40	<40						
	11/15/2005	3.0 J	1.7 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	2.4 U	<10	<10	11	<10	<10	<10	<10	<10	<10	<10	<10	0.59 J	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/9/2006	5.2 J	1.2 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	7.7 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 50	< 50	< 50
	11/15/2007	3.1 J	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	4 J	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 120	< 25	< 25	< 25	< 25	< 25	< 120	< 120	< 25	< 25	< 25
	11/4/2008	4.9 J	0.49 J	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 100	< 20	< 20	< 20	< 20	< 20	< 100	< 100	< 20	< 20	< 20
	11/17/2009	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 50	< 50	< 50
	11/18/2010	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 50	< 50	< 50
	12/12/2012	3.5 J	< 0.2	< 0.2	< 0.99	< 0.2	< 0.99	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.64 J	< 0.99	< 0.99	< 0.99	1.5 J	< 2	< 0.99	2 J	< 0.99	< 2	< 2	< 0.99	< 0.99	< 2	< 0.2	< 0.2	< 0.99	< 5	< 2	< 0.99	< 2	< 0.99	< 0.99	< 5	< 5	< 5	< 5	< 0.99
	12/9/2016	<5	0.28	<0.2	<1	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<1	<1	<1	<2	<2	<1	<5	<1	<2	<2	<1	<1	<2	<0.2	<0.2	<1	<5	<2	<1	<2	<1	<0.48	<5	<40	<5	<5	<1
UAW07-20	5/8/2001	150	<100										NA	NA			<100		<100	NA	<100				<100						<100		<100	<100						
UAW07-20 Dup	5/8/2001	44	<25										NA	NA			<25		<25	NA	NA				<25						<25		<25	<25						

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(123-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitrosodi-n-propyl-amine	N-Nitrosodiphenylamine	2,2'-oxybis(1-Chloropropane)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane
Groundwater																																	
	11/12/2003		<100							<100	<100	<100	<100												<100				<100	190	<100	<100	NA
	3/28/2004		<100							<100	<100	<100	<100												<100				<100	360	<100	<100	NA
	11/4/2004		<67							<67	<67	<67	<67												<67				<67	220	5 J	36 J	NA
UAW03-20 Dup	11/4/2004		<40							<40	<40	<40	<40												<40				<40	160	4 J	26 J	NA
	11/9/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<4	150	3.5 J	20	NA
	11/6/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/13/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/4/2008	< 25	< 25	< 25	< 25	< 120 UJ	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 120	< 120	< 120	< 25	< 25	< 120	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	NA	NA	NA	NA	NA
	11/16/2009	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 250	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA
	11/18/2010	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 250	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA
	11/30/2012	< 0.19	< 0.19	< 0.19	< 0.97	< 9.7	< 0.97	< 0.19	< 0.97	< 0.19	< 0.97	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.97	< 1.9	< 4.9	< 0.97	< 0.97	< 0.97	< 4.9	< 0.19	< 0.97	< 0.19	< 4.9	< 4.9	NA	NA	NA	NA	NA
	12/7/2016	<0.22	<0.22	<1.1	<1.1	<11	<1.1	<0.22	<1.1	<0.22	<1.1	<2.2	<0.22	<2.2	<2.2	<2.2	<1.1	<2.2	<5.4	<1.1	<1.1	<1.1	<43	<0.22	<1.1	<0.22	<5.4	<5.4	NA	NA	NA	NA	NA
UAW04-20	5/7/2001		<40							<40	140	150 #	<40												<40				<40	<40	<40	<40	NA
	11/11/2001		<100							<100	47 J	57 J #	<100												<100				<100	<100	<100	<100	NA
	10/20/2002		NA							NA	<120	<120	NA												NA				NA	<120	NA	<120	NA
	11/12/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	3/28/2004		<50							<50	79	<50	<50												<50				<50	<50	<50	<50	NA
	11/3/2004		<50							<50	15 J	28 J #	<50												<50				<50	3.8 J	<50	<50	NA
	11/9/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	0.86 J	1.4 J,#	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
	11/6/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	12	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
UAW04-20 Dup	11/6/2006	< 40	< 40	< 40	< 40	< 200	< 40	< 40	< 40	< 40	9.5 J	12 J	< 40	< 200	< 200	< 200	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	NA	NA	NA	NA	NA
	11/3/2008	< 10	< 10	< 10	< 10	< 50 UJ	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/16/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/16/2010	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 250	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA
	11/30/2012	< 0.19	< 0.19	< 0.19	< 0.96	< 9.6	< 0.96	< 0.19	< 0.96	< 0.19	< 0.96	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.96	< 1.9	< 4.8	< 0.96	< 0.96	< 0.96	< 4.8	< 0.19	< 0.96	< 0.19	< 4.8	< 4.8	NA	NA	NA	NA	NA
	12/7/2016	<0.19	<0.19	<0.96	<0.96	<9.6	<0.96	<0.19	<0.96	<0.19	<0.96	<1.9	<0.19	<1.9	<1.9	<1.9	<0.96	<1.9	<4.8	<0.96	<0.96	<0.96	<38	<0.19	<0.96	<0.19	<4.8	<4.8	NA	NA	NA	NA	NA
UAW05-20	5/6/2001		<100							<100	<100	<100	<100												<100				<100	880	<100	120	NA
	10/10/2001		<10							<10	<10	<10	<10												<10				2.4 J	NA	20	NA	NA
	11/12/2001		<100							<100	<100	<100	<100												<100				<100	590	16 J	82 J	NA
	10/20/2002		NA							NA	<200	<200	NA												NA				NA	540	NA	82 J	NA
	11/10/2003		<50							<50	<50	<50	<50												<50				<50	200	<50	63	NA
	3/28/2004		<25							<25	<25	<25	<25												<25				<25	91	<25	44	NA
UAW05-20 Dup	3/28/2004		<40							<40	<40	<40	<40												<40				<40	95	<40	47	NA
	11/4/2004		<25							<25	<25	<25	<25												<25				<25	90	7.3 J	52	NA
	11/14/2005	<25	<25	<25	<25	<120	<25	<25	<25	<25	<25	<25	<25	<120	<120	<120	<25	<25	<120	<25	<25	<25	<25	<25	1.9 J	<25	<25	<25	<20	100	9.4 J	71	NA
	11/9/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	2.1 J	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/15/2007	< 25	< 25	< 25	< 25	< 120	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 120	< 120	< 120	< 25	< 25	< 120	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	NA	NA	NA	NA	NA
	11/5/2008	< 100	< 100	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 500	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	NA	NA	NA	NA	NA
	11/17/2009	< 100	< 100	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 500	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	NA	NA	NA	NA	NA
	11/18/2010	< 100	< 100	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 500	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	8 J	< 100	< 100	< 100	NA	NA	NA	NA	NA
	12/12/2012	< 0.5	< 0.5	< 0.5	< 2.5	< 25	< 2.5	< 0.5	< 2.5	< 0.5	< 2.5	< 5	< 0.5	< 5	< 5	< 5	< 2.5	< 5	< 12	< 2.5	< 2.5	< 2.5	< 12	< 0.5	3.7 J	< 0.5	< 12	< 12	NA	NA	NA	NA	NA
UAW05-20 Dup	12/12/2012	< 0.79	< 0.79	< 0.79	< 4	< 40	< 4	< 0.79	< 4	< 0.79	< 4	< 7.9	3.4 J	< 7.9	< 7.9	< 7.9	< 4	< 7.9	< 20	< 4	< 4	< 4	< 20	< 0.79	7.2 J	< 0.79	< 20	< 20	NA	NA	NA	NA	NA
	12/9/2016	<0.21	<0.21	<1	<1	<10	<1	<0.21	<1	<0.21	<1	<2.1	<0.21	<2.1	<2.1	<2.1	<1	<2.1	<5.2	<1	<1	<1	<42	<0.21	2.4	<0.21	<5.2	<5.2	NA	NA	NA	NA	NA
UAW06-20	5/6/2001		<10							<10	<10	<10	<10												<10				<10	14	<10	<10	NA
	10/10/2001		<25							<25	<25	<25	<25												<25				<25	16 J	<25	<25	NA
	11/13/2001		5.9 J							<25	<25	5.4 J #	<25												<25				<25	25	<25	4 J	NA
	10/20/2002		NA							NA	<50	<50	NA												NA				NA	18 J	NA	<50	NA
	11/12/2003		<100							<100	<100	<100	<100												<100				<100	<100	<100	<100	NA
	3/29/2004		<20							<20	<20	<20	<20												<20				<20	41	<20	<20	NA
	11/4/2004		<40							<40	<40	<40	<40												<40				<40	52	<40	5.1 J	NA
	11/15/2005	<10	0.87 J	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<3.3	100	1.7 J	10	NA
	11/9/2006	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 250	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA
	11/15/2007	< 25	1.3 J	< 25	< 25	< 120	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 120	< 120	< 120	< 25	< 25	< 120	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	NA	NA	NA	NA	NA
	11/4/2008	< 20	0.79 J	< 20	< 20	< 100 UJ	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 100	< 100	< 100	< 20	< 20	< 100	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	NA	NA	NA	NA	NA
	11/17/2009	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 250	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA
	11/18/2010	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 250	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA
	12/12/2012	< 0.2	< 0.2	1.1	< 0.99	< 9.9	< 0.99	< 0.2	< 0.99	< 0.2	< 0.99	< 2	< 0.2	< 2	< 2	< 2	< 0.99	< 2	< 5	< 0.99	< 0.99	< 0.99	< 5	< 0.2	< 0.99	< 0.2	< 5	< 5	NA	NA	NA	NA	NA
	12/9/2016	<0.2	0.32	<1	<1	<10	<1	<0.2	<1	<0.2	<1	<2	<0.2	<2	<2	<2	<1	<2	<5	<1	<1	<1	<40	<0.2	0.57 J	<0.2	<5	<5	NA	NA	NA	NA	NA
UAW07-20	5/8/2001		<100							<100	<100	<100	<100												<100				<100	37 J	<100	<100	<100
UAW07-20 Dup	5/8/2001		<25							<25	<25	<25	<25												<25				<25	34	<25	<25	<25

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Aniline	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzo(a)anthracene	Benzo(e)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Benzaldehyde	1,1'-Biphenyl	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl) phthalate	4-Bromophenyl phenl ether	Butyl benzyl phthalate	Caprolactam	Carbazole	4-Chloroaniline	4-Chloro-3-methylphenol	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenyl phenyl ether	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate	Di-n-butyl phthalate	4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octyl phthalate
Groundwater																																									
	11/15/2001	120	<40										NA	NA			<40		<40	NA	NA				<40						<40		<40	<40						
	10/20/2002	9.1 J	NA										<40	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/12/2003	<50	<50										<50	62			<50		<50	<50	<50				<50						<50		<50	<50						
UAW07-20 Dup	11/12/2003	<40	<40										<40	56			<40		<40	<40	<40				<40						<40		<40	<40						
	4/5/2004	<100	<100										<100	<100			<100		<100	<100	<100				<100						<100		<100	<100						
	11/4/2004	19 J	<100										<100	60 J			<100		<100	<100	<100				<100						<100		<100	<100						
	11/15/2005	7.7 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.3 J	15	<10	<10	1.6 U	<10	<10	3.4 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/6/2006	16 J	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 100	< 100	< 100
	11/15/2007	12 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	4.5 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 50	< 50	< 50
	11/4/2008	< 67	< 67	< 67	< 67	< 67	< 67	1.3 J	< 67	1.5 J	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	1.4 J	< 67	< 67	< 330	< 67	< 67	< 67	< 67	< 67	< 330	< 330	< 67	< 67	< 67
	11/16/2009	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 200	< 200	< 40	< 40	< 40
	11/19/2010	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 1000	< 200	< 200	< 200	< 200	< 200	< 1000	< 1000	< 200	< 200	< 200
	11/27/2012	510	< 4.9	< 4.9	< 24	< 4.9	< 24	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 24	< 24	< 24	< 24	< 49	< 49	31	< 120	< 24	< 49	< 49	< 24	< 24	< 49	< 4.9	< 4.9	< 24	< 120	< 49	< 24	< 49	< 24	< 24	< 120	< 120	< 120	< 120	< 24
	12/9/2016	2.9 J	<0.77	<0.77	<3.8	<0.77	<7.7	<0.77	<0.77	<0.77	<0.77	<0.77	<7.7	<3.8	<3.8	<3.8	<7.7	<7.7	<3.8	<19	<3.8	<7.7	<7.7	<3.8	<3.8	<7.7	<3.8	<7.7	<0.77	<0.77	<3.8	<19	<7.7	<3.8	<7.7	<3.8	<3.8	<19	<150	<19	<19	<3.8
UAW08-20	5/6/2001	12000	<1700										NA	NA			<1700		<1700	NA	NA				<1700						<1700		<1700	<1700						
	11/13/2001	12000	<1300										NA	NA			<1300		<1300	NA	NA				<1300						<1300		<1300	<1300						
	10/20/2002	4400	NA										<1000	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/10/2003	8300	<2500										<2500	<2500			<2500		<2500	<2500	<2500				<2500						<2500		<2500	<2500						
	3/29/2004	5900	<4000										<4000	<4000			<4000		<4000	<4000	<4000				<4000						<4000		<4000	<4000						
	11/4/2004	5900	<2000										<2000	<2000			<2000		<2000	<2000	<2000				<2000						<2000		<2000	<2000						
	11/15/2005	3000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<5000	<1000	<1000	<1000	<1000	<1000	<5000	<5000	<1000	<1000	<1000
	11/9/2006	1700	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 4000	< 800	< 800	< 800	< 800	< 800	< 4000	< 4000	< 800	< 800	< 800
	11/7/2007	5700	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 10000	< 2000	< 2000	< 2000	< 2000	< 2000	< 10000	< 10000	< 2000	< 2000	< 2000
	11/4/2008	4100	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 5000	< 1000	< 1000	< 1000	< 1000	< 1000	< 5000	< 5000	< 1000	< 1000	< 1000
UAW08-20 Dup	11/4/2008	3700	< 1000	<1000	<1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 5000	< 1000	< 1000	< 1000	< 1000	< 1000	< 5000	< 5000	< 1000	< 1000	< 1000
	11/16/2009	1900	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 2500	< 500	< 500	< 500	< 500	< 500	< 2500	< 2500	< 500	< 500	< 500
	11/19/2010	740	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 2000	< 400	< 400	< 400	< 400	< 400	< 2000	< 2000	< 400	< 400	< 400
	11/27/2012	< 24	< 0.96	< 0.96	< 4.8	< 0.96	< 4.8	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 4.8	< 4.8	< 4.8	< 4.8	< 9.6	< 9.6	< 4.8	< 24	< 4.8	< 9.6	< 9.6	< 4.8	< 4.8	< 9.6	< 0.96	< 0.96	< 4.8	< 24	< 9.6	< 4.8	< 9.6	< 4.8	< 4.8	< 24	< 24	< 24	< 24	< 4.8
	12/9/2016	180	<2	<2	<10	<2	<20	<2	<2	<2	<2	<2	<20	8 J	<10	<10	<20	<20	<10	<50	<10	<20	<20	<10	<10	<20	<2	<2	<10	<50	<20	<10	<20	<10	<10	<50	<400	<50	<50	<10
UAW09-20	5/5/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/14/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/16/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/11/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	4/6/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/6/2004	<10	<10										<10	<10			0.4 J		<10	<10	<10				<10						<10		<10	<10						
	11/10/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.77 U	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/3/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.6 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/15/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/12/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/18/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/22/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/13/2012	< 4.9	< 0.2	< 0.2	< 0.98	< 0.2	< 0.98	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.98	< 0.98	< 0.98	< 0.98	< 2	< 2	< 0.98	< 4.9	< 0.98	< 2	< 2	< 0.98	< 0.98	< 2	< 0.2	< 0.2	< 0.2	< 0.98	< 4.9	< 2	< 0.98	< 2	< 0.98	< 0.98	< 4.9	< 4.9	< 4.9	< 4.9	< 0.98
	12/5/2016	<5.7	<0.23	<0.23	<1.1	<0.23	<2.3	<0.23	<0.23	<0.23	<0.23	<0.23	<2.3	<1.1	<1.1	<1.1	<2.3	<2.3	<1.1	2.7 J	<1.1	<2.3	<2.3	<1.1	<1.1	<2.3	<0.23	<0.23	<1.1	<5.7	<2.3	<1.1	<2.3	<1.1	<0.49	<5.7	<45	<5.7	<5.7	<1.1
UAW09-60	5/11/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/9/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/16/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/24/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
UAW09-60 Dup	11/24/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/6/2004	<10	<10										<10	<10			3.5 J		<10	<10	<10				<10						<10		<10	<10						
	11/10/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.57 U	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/3/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.5 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/15/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
UAW09-60 Dup	11/15/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	24 B	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/12/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/18/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/22/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/13/2012	< 5.1	< 0.2	< 0.2	< 1	< 0.2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1	< 2	< 2	< 1	< 5.1	< 1	< 2	< 2	< 1	< 1	< 2	< 0.2	< 0.2	< 0.2	< 1	< 5.1	< 2	< 1	< 2	< 1	< 1	< 5.1	< 5.1	< 5.1	< 5.1	< 1
	12/2/2016	<4.8	<0.19	<0.19	<0.96	<0.19	<1.9	<0.19	<0.19	<0.19	<0.19	<0.19	<1.9	<0.96	<0.96	<0.96	<1.9	<1.9	<0.96	2.2 J	<0.96	<1.9	<1.9	<0.96	<0.96	<1.9	<0.19	<0.19	<0.96	<4.8	<1.9	<0.96	<1.9	<0.96	<0.51	<4.8	<38	<4.8	<4.8	<0.96
UAW10-50	10/12/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/13/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(123-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitrosodi-n-propyl-amine	N-Nitrosodiphenylamine	2,2'-oxybis(1-Chloropropane)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane
Groundwater																																	
	11/15/2001		<40							<40	<40	<40	<40												<40				<40	57	<40	8 J	<40
	10/20/2002		NA							NA	<40	<40	NA												NA				NA	61	NA	7.2 J	NA
	11/12/2003		<50							<50	<50	<50	<50												<50				<50	100	<50	<50	NA
UAW07-20 Dup	11/12/2003		<40							<40	<40	<40	<40												<40				<40	83	<40	<40	NA
	4/5/2004		<100							<100	<100	<100	<100												<100				<100	<100	<100	<100	NA
	11/4/2004		<100							<100	<100	<100	<100												<100				<100	100	<100	12 J	NA
	11/15/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<8.3	180	1.7 J	17	NA
	11/6/2006	< 100	< 100	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 500	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	NA	NA	NA	NA	NA
	11/15/2007	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 250	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA
	11/4/2008	1.7 J	< 67	< 67	< 67	< 330 UJ	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 330	< 330	< 330	< 67	< 67	< 330	< 67	< 67	< 67	< 67	< 67	< 67	1.9 J	< 67	< 67	NA	NA	NA	NA	NA
	11/16/2009	< 40	< 40	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 200	< 200	< 200	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	NA	NA	NA	NA	NA
	11/19/2010	< 200	< 200	< 200	< 200	< 1000	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 1000	< 1000	< 1000	< 200	< 200	< 1000	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	NA	NA	NA	NA	NA
	11/27/2012	< 4.9	< 4.9	< 4.9	< 24	< 240	< 24	< 4.9	< 24	< 4.9	< 24	< 49	6.7	< 49	< 49	< 49	< 24	< 49	< 120	< 24	< 24	< 24	< 120	< 4.9	< 24	< 4.9	< 120	< 120	NA	NA	NA	NA	NA
	12/9/2016	<0.77	<0.77	<3.8	<3.8	<38	<3.8	<0.77	<3.8	<0.77	<3.8	<7.7	<0.77	<7.7	<7.7	<7.7	<3.8	<7.7	<19	<3.8	<3.8	<3.8	<150	<0.77	<3.8	<0.77	<19	<19	NA	NA	NA	NA	NA
UAW08-20	5/6/2001		<1700							<1700	<1700	<1700	<1700												<1700				<1700	<1700	<1700	<1700	<1700
	11/13/2001		<1300							<1300	<1300	330 J #	<1300												<1300				<1300	530 J	<1300	<1300	<1300
	10/20/2002		NA							NA	<1000	200 J	NA												NA				NA	280 J	NA	<1000	NA
	11/10/2003		<2500							<2500	<2500	<2500	<2500												<2500				<2500	<2500	<2500	<2500	NA
	3/29/2004		<4000							<4000	<4000	<4000	<4000												<4000				<4000	<4000	<4000	<4000	NA
	11/4/2004		<2000							<2000	<2000	<2000	<2000												160 J				<2000	380 J	<2000	<2000	NA
	11/15/2005	<1000	<1000	<1000	<1000	<5000	<1000	<1000	<1000	<1000	<1000	140 J,#	<1000	<5000	<5000	<5000	<1000	<1000	<5000	<1000	<1000	<1000	<1000	<1000	92 J	<1000	<1000	<1000	<25	380	7.6 J	41	NA
	11/9/2006	< 800	< 800	< 800	< 800	< 4000	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 4000	< 4000	< 4000	< 800	< 800	< 4000	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	< 800	NA	NA	NA	NA	NA
	11/7/2007	< 2000	< 2000	< 2000	< 2000	< 10000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 10000	< 10000	< 10000	< 2000	< 2000	< 10000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	< 2000	NA	NA	NA	NA	NA
	11/4/2008	< 1000	< 1000	< 1000	< 1000	< 5000 UJ	< 1000	< 1000	< 1000	< 1000	< 1000	84 J	< 1000	< 5000	< 5000	< 5000	< 1000	< 1000	< 5000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	NA	NA	NA	NA	NA
UAW08-20 Dup	11/4/2008	< 1000	< 1000	< 1000	< 1000	< 5000 UJ	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 5000	< 5000	< 5000	< 1000	< 1000	< 5000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	< 1000	NA	NA	NA	NA	NA
	11/16/2009	< 500	< 500	< 500	< 500	< 2500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 2500	< 2500	< 2500	< 500	< 500	< 2500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	NA	NA	NA	NA	NA
	11/19/2010	< 400	< 400	< 400	< 400	< 2000	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 2000	< 2000	< 2000	< 400	< 400	< 2000	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	NA	NA	NA	NA	NA
	11/27/2012	< 0.96	< 0.96	< 0.96	< 4.8	< 48	< 4.8	< 0.96	< 4.8	< 0.96	11	< 9.6	< 0.96	< 9.6	< 9.6	< 9.6	< 4.8	< 9.6	< 24	< 4.8	< 4.8	< 4.8	< 24	< 0.96	< 4.8	< 0.96	< 24	< 24	NA	NA	NA	NA	NA
	12/9/2016	<2	<2	<10	<10	<100	<10	<2	<10	<2	<10	<20	<2	<20	<20	<20	<10	<20	<50	<10	<10	<10	<400	<2	<10	<2	<50	<50	NA	NA	NA	NA	NA
UAW09-20	5/5/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/14/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/16/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
	11/11/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	4/6/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/6/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/10/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	11/3/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/15/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/12/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/18/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/22/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/13/2012	< 0.2	< 0.2	< 0.2	< 0.98	< 9.8	< 0.98	< 0.2	< 0.98	< 0.2	< 0.98	< 2	< 0.2	< 2	< 2	< 2	< 0.98	< 2	< 4.9	< 0.98	< 0.98	< 0.98	< 4.9	< 0.2	< 0.98	< 0.2	< 4.9	< 4.9	NA	NA	NA	NA	NA
	12/5/2016	<0.23	<0.23	<1.1	<1.1	<11	<1.1	<0.23	<1.1	<0.23	<1.1	<2.3	<0.23	<2.3	<2.3	<2.3	<1.1	<2.3	<5.7	<1.1	<1.1	<1.1	<45	<0.23	<1.1	<0.23	<5.7	<5.7	NA	NA	NA	NA	NA
UAW09-60	5/11/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/9/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/16/2002		NA							NA	<10	<10	<10												NA				NA	<10	NA	<10	NA
	11/24/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
UAW09-60 Dup	11/24/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/6/2004		<10							NA	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/10/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	11/3/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/15/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
UAW09-60 Dup	11/15/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/12/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/18/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/22/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/13/2012	< 0.2	< 0.2	< 0.2	< 1	< 10	< 1	< 0.2	< 1	< 0.2	< 1	< 2	< 0.2	< 2	< 2	< 2	< 1	< 2	< 5.1	< 1	< 1	< 1	< 5.1	< 0.2	< 1	< 0.2	< 5.1	< 5.1	NA	NA	NA	NA	NA
	12/2/2016	<0.19	<0.19	<0.96	<0.96	<9.6	<0.96	<0.19	<0.96	<0.19	<0.96	<1.9	<0.19	<1.9	<1.9	<1.9	<0.96	<1.9	<4.8	<0.96	<0.96	<0.96	<38	<0.19	<0.96	<0.19	<4.8	<4.8	NA	NA	NA	NA	NA
UAW10-50	10/12/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/13/2001		<10							<10	<10	<10	<10												<10				<10	5 J	<10	2.3 J	NA

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Aniline	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzo(a)anthracene	Benzo(e)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Benzaldehyde	1,1'-Biphenyl	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl) phthalate	4-Bromophenyl phenl ether	Butyl benzyl phthalate	Caprolactam	Carbazole	4-Chloroaniline	4-Chloro-3-methylphenol	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenyl phenyl ether	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate	Di-n-butyl phthalate	4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octyl phthalate
Groundwater																																									
	10/19/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/24/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	4/8/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/12/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/11/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	4.8 U	<10	<10	11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/9/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/12/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
UAW10-50 Dup	11/12/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/12/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
UAW10-50 Dup	11/12/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/20/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
UAW10-50 Dup	11/20/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/18/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/10/2012	< 5.2	< 0.21	< 0.21	< 1	< 0.21	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 1	< 1	< 1	< 2.1	< 2.1	< 1	< 5.2	< 1	< 2.1	< 2.1	< 1	< 1	< 2.1	< 0.21	< 0.21	< 1	< 5.2	< 2.1	< 1	< 2.1	< 1	< 1	< 5.2	< 5.2	< 5.2	< 5.2	< 1
	12/14/2016	<5	<0.2	<0.2	<1	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<1	<1	<1	<2	<2	<1	<5	<1	<2	<2	<1	<1	<2	<0.2	<0.2	<1	<5	<2	<1	<2	<1	<0.52	<5	<40	<5	<5	<1
UAW10-80	10/18/2001	NA	<10										<10	<10			<10		<10	NA	<10				<10						<10		<10	1.5 J						
	11/15/2001	NA	<10										<10	<10			<10		2.4 J	11	<10				<10						<10		<10	1.2 J						
	10/19/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/25/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	4/8/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/12/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/16/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.3 U	<10	<10	0.94 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/9/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.1 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/12/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/12/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/20/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/18/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	0.24 J	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/10/2012	< 5	< 0.2	< 0.2	< 0.99	< 0.2	< 0.99	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.99	< 0.99	< 0.99	< 0.99	< 2	< 2	< 0.99	< 5	< 0.99	< 2	< 2	< 0.99	< 0.99	< 2	< 0.2	< 0.2	< 0.99	< 5	< 2	< 0.99	< 2	< 0.99	< 0.99	< 5	< 5	< 5	< 5	< 0.99
	12/15/2016	<5.2	<0.21	<0.21	<1	<0.21	<2.1	<0.21	<0.21	<0.21	<0.21	<0.21	<2.1	<1	<1	<1	<2.1	<2.1	<1	<5.2	<1	<2.1	<2.1	<1	<1	<2.1	<0.21	<0.21	<1	<5.2	<2.1	<1	<2.1	<1	<1	<5.2	<42	<5.2	<5.2	<1
UAW11-10	5/8/2001	NA	<500										<500	<500			<500		<500	<500	<500				<500						<500		<500	<500						
	11/10/2001	NA	<25										<25	<25			<25		<25	<25	<25				<25						<25		<25	<25						
	10/18/2002	97 E	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/16/2003	44	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	4/6/2004	<40	<40										<40	<40			<40		<40	<40	<40				<40						<40		<40	<40						
	11/7/2004	16	<10										<10	<10			29 B		<10	<10	<10				<10						<10		<10	<10						
	11/10/2005	28 J	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	19 J	<100	<100	<100	<100	<100	<100	<100	<100	<100	<500	<100	<100	<100	<100	<100	<500	<500	<100	<100	<100
	11/2/2006	200	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	16 J	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 330	< 67	< 67	< 67	< 67	< 67	< 330	< 330	< 67	< 67	< 67
	11/16/2007	3.7 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/10/2008	58	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/18/2009	13	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	1.4 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/29/2010	17	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.2 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/4/2012	72	< 0.78	< 0.78	< 3.9	< 0.78	< 3.9	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 3.9	< 3.9	< 3.9	< 3.9	< 7.8	< 7.8	< 3.9	< 19	< 3.9	< 7.8	< 7.8	< 3.9	< 3.9	< 7.8	< 0.78	< 0.78	< 3.9	< 19	< 7.8	< 3.9	< 7.8	< 3.9	< 3.9	< 19	< 19	< 19	< 19	< 3.9
	12/8/2016	<6.3	<0.25	<0.25	<1.3	<0.25	<2.5	<0.25	<0.25	<0.25	<0.25	<0.25	<2.5	<1.3	<1.3	<1.3	<2.5	<2.5	<1.3	6.9	<1.3	<2.5	<2.5	<1.3	<1.3	<2.5	<0.25	<0.25	<1.3	<6.3	<2.5	<1.3	<2.5	<1.3	<1.3	<6.3	<50	<6.3	<6.3	<1.3
UAW11-40	5/18/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/14/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/18/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/30/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	4/6/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
UAW11-40 Dup	4/6/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/16/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/10/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.48 U	<10	<10	0.99 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/2/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.8 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/16/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/10/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/18/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/29/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.1 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
UAW11-40 Dup	11/29/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/4/2012	< 4.8	< 0.19	< 0.19	< 0.95	< 0.19	< 0.95	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.95	< 0.95	< 0.95	< 0.95	< 1.9	< 1.9	< 0.95	< 4.8	< 0.95	< 1.9	< 1.9	< 0.95	< 0.95	< 1.9	< 0.19	< 0.19	< 0.95	< 4.8	< 1.9	< 0.95	< 1.9	< 0.95	< 0.95	< 4.8	< 4.8	< 4.8	< 4.8	< 0.95
	12/8/2016	<4.8	<0.19	<0.19	<0.96	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<1.9	<0.96	<0.96	<0.96	<1.9	<1.9	<0.96	<4.8	<0.96	<1.9	<1.9	<0.96	<0.96	<1.9	<0.19	<0.19	<0.96	<4.8	<1.9	<0.96	<1.9	<0.96	<0.96	<4.8	<38	<4.8	<4.8	<0.96
UAW12-20	5/6/2001	<250	<250										NA	NA			<250		<250	NA	NA				<250						<250		<250	<250						

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(123-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitrosodi-n-propyl-amine	N-Nitrosodiphenylamine	2,2'-oxybis(1-Chloropropane)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane
Groundwater																																	
	10/19/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
	11/24/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	4/8/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/12/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/11/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<5	<5	<5	NA
	11/9/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/12/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
UAW10-50 Dup	11/12/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/12/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
UAW10-50 Dup	11/12/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/20/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
UAW10-50 Dup	11/20/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/18/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/10/2012	< 0.21	< 0.21	< 0.21	< 1	< 10	< 1	< 0.21	< 1	< 0.21	< 1	< 2.1	< 0.21	< 2.1	< 2.1	< 2.1	< 1	< 2.1	< 5.2	< 1	< 1	< 1	< 5.2	< 0.21	< 1	< 0.21	< 5.2	< 5.2	NA	NA	NA	NA	NA
	12/14/2016	<0.2	<0.2	<1	<1	<10	<1	<0.2	<1	<0.2	<1	<2	<0.2	<2	<2	<2	<1	<2	<5	<1	<1	<1	<40	<0.2	<1	<0.2	<5	<5	NA	NA	NA	NA	NA
UAW10-80	10/18/2001		<10							<10	<10	<10	<10												19				<10	<10	<10	<10	NA
	11/15/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/19/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
	11/25/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	4/8/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/12/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/16/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<2.5	<2.5	<2.5	<2.5	NA
	11/9/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA
	11/12/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA
	11/12/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA
	11/20/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA
	11/18/2010	0.38 J	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	0.36 J	< 10	< 10	NA	NA	NA	NA	NA
	12/10/2012	< 0.2	< 0.2	< 0.2	< 0.99	< 9.9	< 0.99	< 0.2	< 0.99	< 0.2	< 0.99	< 2	< 0.2	< 2	< 2	< 2	< 0.99	< 2	< 5	< 0.99	< 0.99	< 0.99	< 5	< 0.2	< 0.99	< 0.2	< 5	< 5	NA	NA	NA	NA	NA
	12/15/2016	<0.21	<0.21	<1	<1	<10	<1	<0.21	<1	<0.21	<1	<2.1	<0.21	<2.1	<2.1	<2.1	<1	<2.1	<5.2	<1	<1	<1	<42	<0.21	<1	<0.21	<5.2	<5.2	NA	NA	NA	NA	NA
UAW11-10	5/8/2001		<500							<500	<500	<500	<500												<500				<500	<500	<500	<500	NA
	11/10/2001		<25							<25	<25	9 J #	<25												<25				<25	13 J	<25	3.7 J	NA
	10/18/2002		NA							NA	<10	<10	NA												NA				NA	9.1 J	NA	3 J	NA
	11/16/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	4/6/2004		<40							<40	<40	<40	<40												<40				<40	<40	<40	<40	NA
	11/7/2004		<10							<10	<10	<10	<10												<10				<10	8.9 J	<10	3.7 J	NA
	11/10/2005	<100	<100	<100	<100	<500	<100	<100	<100	<100	<100	<100	<100	<500	<500	<500	<100	<100	<500	<100	<100	<100	<100	<100	<100	<100	<100	<100	<1	20	1.1	8.6	NA
	11/2/2006	< 67	< 67	< 67	< 67	< 330	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 330	< 330	< 330	< 67	< 67	< 330	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	NA	NA	NA	NA	NA
	11/16/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	1.6 J	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/10/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/18/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/29/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	0.99 J	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/4/2012	< 0.78	< 0.78	< 0.78	< 3.9	< 39	< 3.9	< 0.78	< 3.9	< 0.78	< 3.9	< 7.8	< 0.78	< 7.8	< 7.8	< 7.8	< 3.9	< 7.8	< 19	< 3.9	< 3.9	< 3.9	< 19	< 0.78	< 3.9	< 0.78	< 19	< 19	NA	NA	NA	NA	NA
	12/8/2016	<0.25	<0.25	<1.3	<1.3	<13	<1.3	<0.25	<1.3	<0.25	<1.3	<2.5	<0.25	<2.5	<2.5	<2.5	<1.3	<2.5	<6.3	<1.3	<1.3	<1.3	<50	<0.25	<1.3	<0.25	<6.3	<6.3	NA	NA	NA	NA	NA
UAW11-40	5/18/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/14/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/18/2002		NA							<10	<10	<10	<10												NA				NA	<10	NA	<10	NA
	11/30/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	4/6/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
UAW11-40 Dup	4/6/2004		<10							NA	<10	<10	NA												<10				<10	<10	<10	<10	NA
	11/16/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/10/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	0.52 J	<1	<1	NA
	11/2/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/16/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/10/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/18/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/29/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
UAW11-40 Dup	11/29/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/4/2012	< 0.19	< 0.19	< 0.19	< 0.95	< 9.5	< 0.95	< 0.19	< 0.95	< 0.19	< 0.95	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.95	< 1.9	< 4.8	< 0.95	< 0.95	< 0.95	< 4.8	< 0.19	< 0.95	< 0.19	< 4.8	< 4.8	NA	NA	NA	NA	NA
	12/8/2016	<0.19	<0.19	<0.96	<0.96	<9.6	<0.96	<0.19	<0.96	<0.19	<0.96	<1.9	<0.19	<1.9	<1.9	<1.9	<0.96	<1.9	<4.8	<0.96	<0.96	<0.96	<38	<0.19	<0.96	<0.19	<4.8	<4.8	NA	NA	NA	NA	NA
UAW12-20	5/6/2001		<250							<250	<250	<250	<250												<250				<250	1600	<250	150 J	<250

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Aniline	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzo(a)anthracene	Benzo(e)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Benzaldehyde	1,1'-Biphenyl	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl) phthalate	4-Bromophenyl phenl ether	Butyl benzyl phthalate	Caprolactam	Carbazole	4-Chloroaniline	4-Chloro-3-methylphenol	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenyl phenyl ether	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate	Di-n-butyl phthalate	4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octyl phthalate
Groundwater																																									
	11/15/2001	<200	<200										NA	NA			<200		<200	NA	NA				<200						<200		<200	<200						
	10/20/2002	<500	NA										<500	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/12/2003	<500	<500										<500	<500			<500		<500	<500	<500				<500						<500		<500	<500						
	3/28/2004	<500	<500										<500	<500			<500		<500	<500	<500				<500						<500		<500	<500						
	11/4/2004	<400	<400										<400	<400			<400		<400	<400	<400				<400						<400		<400	<400						
	11/14/2005	4.3 J	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	<40	<40	<40	<40	<40	<200	<200	<40	<40	<40
	11/6/2006	4.6 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.6 J	< 10	< 10	< 10	< 10	4.1 J	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/16/2007	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	5.8 J	< 67	< 67	< 67	< 330	< 67	< 67	< 67	< 67	< 67	< 330	< 330	< 67	< 67	< 67
	11/6/2008	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 50	< 50	< 50
	11/19/2009	6.9 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.7 J	< 10	< 10	< 10	< 50	1.2 J	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/29/2010	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	1.7 J	< 40	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 200	< 200	< 40	< 40	< 40
	12/4/2012	0.63	< 0.019	< 0.019	< 0.096	< 0.019	< 0.096	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.096	< 0.096	< 0.096	< 0.096	0.079 J	< 0.19	< 0.096	< 0.48	< 0.096	< 0.19	< 0.19	< 0.096	0.056 J	< 0.19	< 0.019	< 0.019	< 0.096	< 0.48	< 0.19	< 0.096	< 0.19	< 0.096	< 0.096	< 0.48	< 0.48	< 0.48	< 0.48	< 0.096
	12/9/2016	1.5 J	<0.22	<0.22	<1.1	<0.22	<2.2	<0.22	<0.22	<0.22	<0.22	<0.22	<2.2	<1.1	<1.1	<1.1	<2.2	<2.2	<1.1	4.8 J	<1.1	<2.2	<2.2	<1.1	<1.1	<2.2	<0.22	<0.22	<1.1	<5.4	<2.2	<1.1	<2.2	<1.1	<0.68	<5.4	<43	<5.4	<5.4	<1.1
UAW13-20	5/6/2001	400	<200										NA	NA			<200		<200	NA	NA				<200						<200		<200	<200						
	11/15/2001	<200	<200										NA	NA			<200		<200	NA	<200				<200						<200		<200	<200						
	10/23/2002	830	NA										<250	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/12/2003	<100	<100										<100	<100			<100		<100	<100	<100				<100						<100		<100	<100						
	3/28/2004	<250	<250										<250	<250			<250		<250	<250	<250				<250						<250		<250	<250						
	11/5/2004	160	<100										<100	<100			<100		<100	<100	<100				<100						<100		<100	<100						
	11/16/2005	48 J	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<250	<50	<50	<50	<50	<50	<250	<250	<50	<50	<50
	10/31/2006	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 50	< 50	< 50
	11/16/2007	40	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	12 J	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 120	< 25	< 25	< 25	< 25	< 25	< 120	< 120	< 25	< 25	< 25
	11/6/2008	740	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 1200	< 250	< 250	< 250	< 250	< 250	< 1200	< 1200	< 250	< 250	< 250
	11/19/2009	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 100	< 100	< 100
	11/29/2010	130 J	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 1000	< 200	< 200	< 200	< 200	< 200	< 1000	< 1000	< 200	< 200	< 200
	12/4/2012	27	< 0.81	< 0.81	< 4	< 0.81	< 4	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 4	< 4	< 4	< 4	3.8 J	< 8.1	< 4	12 J	< 4	< 8.1	< 8.1	< 4	< 4	< 8.1	< 0.81	< 0.81	< 4	< 20	< 8.1	< 4	< 8.1	< 4	< 4	< 20	< 20	< 20	< 20	< 4
	12/9/2016	9.8 J	<0.8	<0.8	<4	<0.8	<8	<0.8	<0.8	<0.8	<0.8	<0.8	<8	<4	<4	<4	<8	<8	<4	<20	<4	<8	<8	<4	<4	<8	<0.8	<0.8	<4	<20	<8	<4	<8	<4	<4	<20	<160	<20	<20	<4
UAW14-10	5/5/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/9/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/16/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/16/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	4/5/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/6/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/16/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	3.3 U	<10	<10	0.76 J	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/8/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/7/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/13/2008	< 10	< 10	< 10	< 10	0.42 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/24/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	75	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/30/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/13/2012	< 4.9	< 0.2	< 0.2	< 0.98	< 0.2	< 0.98	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.98	< 0.98	< 0.98	< 0.98	< 2	< 2	< 0.98	< 4.9	< 0.98	< 2	< 2	< 0.98	< 0.98	< 4.9	< 0.2	< 0.2	< 0.98	< 4.9	< 2	< 0.98	< 2	< 0.98	< 0.98	< 4.9	< 4.9	< 4.9	< 4.9	< 0.98
	12/14/2016	<5.2	<0.21	<0.21	<1	<0.21	<2.1	<0.21	<0.21	<0.21	<0.21	<0.21	<2.1	<1	<1	<1	<1	<2.1	<1	<5.2	<1	<2.1	<2.1	<1	<1	<2.1	<0.21	<0.21	<1	<5.2	<2.1	<1	<2.1	<1	<1	<5.2	<42	<5.2	<5.2	<1
UAW15-20	5/6/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/11/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/18/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/17/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	4/7/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/7/2004	<10	<10										<10	<10			1 J B		<10	<10	<10				<10						<10		<10	<10						
	11/15/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	9.5 U	<10	<10	0.91 J	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/2/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.6 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/19/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/14/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/11/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/23/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/5/2012	< 5.5	< 0.22	< 0.22	< 1.1	< 0.22	< 1.1	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 1.1	< 1.1	< 1.1	< 1.1	< 2.2	< 2.2	< 1.1	< 5.5	< 1.1	< 2.2	< 2.2	< 1.1	< 1.1	< 2.2	< 0.22	< 0.22	< 1.1	< 5.5	< 2.2	< 1.1	< 2.2	< 1.1	< 1.1	< 5.5	< 5.5	< 5.5	< 5.5	< 1.1
	12/8/2016	<5.2	<0.21	<0.21	<5.2	<0.21	<2.1	<0.21	<0.21	<0.21	<0.21	<0.21	<2.1	<1	<1	<1	<2.1	<2.1	<1	5 J	<1	<2.1	<2.1	<1	<1	<2.1	<0.21	<0.21	<1	<5.2	<2.1	<1	<2.1	<1	<1	<5.2	<42	<5.2	<5.2	<1
UAW15-50	5/6/2001	NA	<200										<200	<200			<200		<200	<200	<200				<200						<200		<200	<200						
	11/19/2001	NA	<500										<500	<500			<500		<500	<500	<500				<500						<500		<500	<500						
	10/18/2002	<500	NA										<500	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	12/4/2003	<200	<200										<200	<200			<200		<200	<200	<200				<200						<200		<200	<200						
	4/7/2004	<100	<100										<100	<100			<100		<100	<100	<100				<100						<100		<100	<100						

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(123-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitrosodi-n-propyl-amine	N-Nitrosodiphenylamine	2,2'-oxybis(1-Chloropropane)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane
Groundwater																																	
	11/15/2001		<200							<200	<200	<200	<200												<200				<200	1900	41 J	230	<200
	10/20/2002		NA							NA	<500	<500	NA												NA				NA	1100	NA	130 J	NA
	11/12/2003		<500							<500	<500	<500	<500												<500				<500	1600	<500	<500	NA
	3/28/2004		<500							<500	<500	<500	<500												<500				<500	1500	<500	<500	NA
	11/4/2004		<400							<400	<400	<400	<400												<400				<400	1100	35 J	180 J	NA
	11/14/2005	<40	<40	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40	<200	<200	<200	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40	<40	<40	<100	1100	46 J	220	NA
	11/6/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	3.5 J	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/16/2007	< 67	< 67	< 67	< 67	< 330	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 330	< 330	< 330	< 67	< 67	< 330	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	< 67	NA	NA	NA	NA	NA
	11/6/2008	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 250	< 250	< 250	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA
	11/19/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/29/2010	< 40	< 40	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 200	< 200	< 200	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	NA	NA	NA	NA	NA
	12/4/2012	< 0.019	< 0.019	< 0.019	< 0.096	< 0.96	< 0.096	< 0.019	< 0.096	< 0.019	< 0.096	< 0.19	< 0.019	< 0.19	< 0.19	< 0.19	< 0.096	< 0.19	< 0.48	< 0.096	< 0.096	< 0.096	< 0.48	< 0.019	< 0.096	< 0.019	< 0.48	< 0.48	NA	NA	NA	NA	NA
	12/9/2016	<0.22	<0.22	<1.1	<1.1	<11	<1.1	<0.22	<1.1	<0.22	<1.1	<2.2	<0.22	<2.2	<2.2	<2.2	<1.1	<2.2	<5.4	<1.1	<1.1	<1.1	<43	<0.22	<1.1	<0.22	<5.4	<5.4	NA	NA	NA	NA	NA
UAW13-20	5/6/2001		<200							<200	<200	<200	<200												<200				<200	<200	<200	<200	<200
	11/15/2001		<200							<200	<200	<200	<200												<200				<200	49 J	<200	<200	<200
	10/23/2002		NA							NA	<250	<250	NA												NA				NA	55 J	NA	<250	NA
	11/12/2003		<100							<100	<100	<100	<100												<100				<100	<100	<100	<100	NA
	3/28/2004		<250							<250	<250	<250	<250												<250				<250	<250	<250	<250	NA
	11/5/2004		<100							8.6J	<100	<100	<100												<100				<100	53 J	<100	11 J	NA
	11/16/2005	<50	<50	<50	<50	<250	<50	<50	<50	6.5 J	<50	<50	2.6 J	<250	<250	<250	<50	<50	<250	<50	<50	<50	<50	<50	<50	<50	<50	<50	<10	66	<10	11	NA
	10/31/2006	< 50	< 50	< 50	< 50	< 250	< 50	< 50	< 50	5.7 J	< 50	< 50	< 50	< 250	< 250	< 250	< 50	< 50	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	NA	NA	NA	NA	NA
	11/16/2007	< 25	< 25	< 25	< 25	< 120	< 25	< 25	< 25	5.4 J	< 25	< 25	2.5 J	< 120	< 120	< 120	< 25	< 25	< 120	< 25	< 25	< 25	3.3 J	< 25	< 25	< 25	< 25	< 25	NA	NA	NA	NA	NA
	11/6/2008	< 250	< 250	< 250	< 250	< 1200	< 250	< 250	< 250	18 J	< 250	< 250	< 250	< 1200	< 1200	< 1200	< 250	< 250	< 1200	< 250	< 250	< 250	< 250	< 250	48 J	< 250	< 250	< 250	NA	NA	NA	NA	NA
	11/19/2009	< 100	< 100	< 100	< 100	< 500	< 100	< 100	< 100	4.3 J	< 100	< 100	< 100	< 500	< 500	< 500	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	NA	NA	NA	NA	NA
	11/29/2010	< 200	< 200	< 200	< 200	< 1000	< 200	< 200	< 200	6.2 J	< 200	< 200	< 200	< 1000	< 1000	< 1000	< 200	< 200	< 1000	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 200	NA	NA	NA	NA	NA
	12/4/2012	< 0.81	< 0.81	< 0.81	< 4	< 40	< 4	< 0.81	< 4	3.9	< 4	< 8.1	2.5	< 8.1	< 8.1	< 8.1	< 4	< 8.1	< 20	< 4	< 4	< 4	< 20	< 0.81	< 4	< 0.81	< 20	< 20	NA	NA	NA	NA	NA
	12/9/2016	<0.8	<0.8	<4	<4	<40	<4	<0.8	<4	<0.8	<4	<8	<0.8	<8	<8	<8	<4	<8	<20	<4	<4	<4	<160	<0.8	<4	<0.8	<20	<20	NA	NA	NA	NA	NA
UAW14-10	5/5/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/9/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/16/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
	11/16/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	4/5/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/6/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/16/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	11/8/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/7/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/13/2008	0.55 J	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	0.26 J	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/24/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/30/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	R	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/13/2012	< 0.2	< 0.2	< 0.2	< 0.98	< 9.8	< 0.98	< 0.2	< 0.98	< 0.2	< 0.98	< 2	< 0.2	< 2	< 2	< 2	< 0.98	< 2	< 4.9	< 0.98	< 0.98	< 0.98	< 4.9	< 0.2	< 0.98	< 0.2	< 4.9	< 4.9	NA	NA	NA	NA	NA
	12/14/2016	<0.21	<0.21	<1	<1	<10	<1	<0.21	<1	<0.21	<1	<2.1	<0.21	<2.1	<2.1	<2.1	<1	<2.1	<5.2	<1	<1	<1	<42	<0.21	<1	<0.21	<5.2	<5.2	NA	NA	NA	NA	NA
UAW15-20	5/6/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/11/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/18/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
	11/17/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	4/7/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/7/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/15/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<5	<5	<5	NA
	11/2/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/19/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/14/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/11/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/23/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/5/2012	< 0.22	< 0.22	< 0.22	< 1.1	< 11	< 1.1	< 0.22	< 1.1	< 0.22	< 1.1	< 2.2	< 0.22	< 2.2	< 2.2	< 2.2	< 1.1	< 2.2	< 5.5	< 1.1	< 1.1	< 1.1	< 5.5	< 0.22	< 1.1	< 0.22	< 5.5	< 5.5	NA	NA	NA	NA	NA
	12/8/2016	<0.21	<0.21	<1	<1	<10	<1	<0.21	<1	<0.21	<1	<2.1	<0.21	<2.1	<2.1	<2.1	<1	<2.1	<5.2	<1	<1	<1	<42	<0.21	<1	<0.21	<5.2	<5.2	NA	NA	NA	NA	NA
UAW15-50	5/6/2001		<200							<200	<200	<200	<200												<200				<200	<200	<200	<200	NA
	11/19/2001		<500							<500	<500	110 J #	<500												<500				<500	<500	<500	<500	NA
	10/18/2002		NA							<500	<500	<500	<500												NA				NA	<500	NA	<500	NA
	12/4/2003		<200							<200	<200	<200	<200												<200				<200	<200	<200	<200	NA
	4/7/2004		<100							<100	<100	<100	<100												<100				<100	<100	<100	<100	NA

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Aniline	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzo(a)anthracene	Benzo(e)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Benzaldehyde	1,1'-Biphenyl	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl) phthalate	4-Bromophenyl phenl ether	Butyl benzyl phthalate	Caprolactam	Carbazole	4-Chloroaniline	4-Chloro-3-methylphenol	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenyl phenyl ether	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate	Di-n-butyl phthalate	4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octyl phthalate
Groundwater																																								
	11/7/2004	<100	<100										<100	<100			<100		<100	<100	<100				<100						<100		<100	<100						
UAW15-50 Dup	11/7/2004	<100	<100										<100	<100			<100		<100	<100	<100				<100						<100		<100	<100						
	11/15/2005	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	27 J	<200	<200	<200	<200	<200	<200	<200	<200	<200	<1000	<200	<200	<200	<200	<200	<1000	<1000	<200	<200	<200
	11/2/2006	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 100	< 100	< 100
	11/19/2007	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 200	< 200	< 40	< 40	< 40	< 40	< 200	< 200	< 40	< 40	< 40
	11/14/2008	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 200	< 200	< 40	< 40	< 40
	11/11/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	1.5 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/23/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
UAW15-50 Dup	11/23/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	2.7 J	< 10	< 10	1.3 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/5/2012	< 4.8	< 0.19	< 0.19	< 0.96	< 0.19	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 0.96	< 0.96	< 0.96	1.1 J	< 1.9	< 0.96	< 4.8	< 0.96	< 1.9	< 1.9	< 0.96	< 0.96	< 1.9	< 0.19	< 0.19	< 0.96	< 4.8	< 1.9	< 0.96	< 1.9	< 0.96	< 0.96	< 4.8	< 4.8	< 4.8	< 4.8	< 0.96
	12/8/2016	<5	<0.2	<0.2	<1	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<1	<1	<1	<2	<2	<1	4.2 J	<1	<2	<2	<1	<1	<2	<0.2	<0.2	<1	<5	<2	<1	<2	<1	<0.51	<5	<40	<5	<5	<1
UAW16-10	10/12/2001	NA	<10										<10	<10			<10		<10	19	<10				<10						<10		<10	<10						
UAW16-10 Dup	10/12/2001	NA	<10										<10	<10			<10		<10	17	<10				<10						<10		<10	<10						
	11/13/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/18/2002	9.5 J	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/17/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
UAW16-10 Dup	11/17/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	4/7/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/7/2004	<40	<40										<40	<40			<40		<40	<40	<40				<40						<40		<40	<40						
	11/15/2005	4.1 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.7 U	<10	<10	1.1 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/6/2006	1.9 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/19/2007	6.6 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/18/2008	2.6 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/20/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/17/2010	15	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/30/2012	5.6	< 0.2	< 0.2	< 0.98	< 0.2	< 0.98	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.38 J	< 0.98	< 0.98	< 0.98	< 2	< 2	< 0.98	< 4.9	< 0.98	< 2	< 2	< 0.98	< 0.98	< 2	< 0.2	< 0.2	< 0.98	< 4.9	< 2	< 0.98	< 2	< 0.98	< 0.98	< 4.9	< 4.9	< 4.9	< 4.9	< 0.98
UAW16-10 Dup	11/30/2012	5.8	< 0.19	< 0.19	< 0.96	< 0.19	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 0.96	< 0.96	< 0.96	< 1.9	< 1.9	< 0.96	0.88 J	< 0.96	< 1.9	< 1.9	< 0.96	< 0.96	< 1.9	< 0.19	< 0.19	< 0.96	< 4.8	< 1.9	< 0.96	< 1.9	< 0.96	< 0.96	< 4.8	< 4.8	< 4.8	< 4.8	< 0.96
	12/8/2016	<5	<0.2	<0.2	<1	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<1	<1	<1	<2	<2	<1	<5	<1	<2	<2	<1	<1	<2	<0.2	<0.2	<1	<5	<2	<1	<2	<1	<0.48	<5	<40	<5	<5	<1
UAW16-10 Dup	12/8/2016	0.81 J	<0.19	<0.19	<0.96	<0.19	<1.9	<0.19	<0.19	<0.19	<0.19	<0.19	<1.9	<0.96	<0.96	<0.96	<1.9	<1.9	<0.96	<4.8	<0.96	<1.9	<1.9	<0.96	<0.96	<1.9	<0.19	<0.19	<0.96	<4.8	<1.9	<0.96	<1.9	<0.96	<0.96	<4.8	<38	<4.8	<4.8	<0.96
UAW17-40	5/5/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/9/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/16/2002	<10	<10										<10	NA			NA		NA	NA	NA				<10						NA		NA	NA						
	11/16/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	3/31/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/6/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/14/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.2 U	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	10/31/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/19/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/7/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/13/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/11/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/13/2012	< 4.8	< 0.19	< 0.19	< 0.96	< 0.19	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 0.96	< 0.96	< 0.96	< 1.9	< 1.9	< 0.96	< 4.8	< 0.96	< 1.9	< 1.9	< 0.96	< 0.96	< 1.9	< 0.19	< 0.19	< 0.96	< 4.8	< 1.9	< 0.96	< 1.9	< 0.96	< 0.96	< 4.8	< 4.8	< 4.8	< 4.8	< 0.96
	12/14/2016	<5.2	<0.21	<0.21	<1	<0.21	<2.1	<0.21	<0.21	<0.21	<0.21	<0.21	<2.1	<1	<1	<1	<2.1	<2.1	<1	<5.2	<1	<2.1	<2.1	<1	<1	<2.1	<0.21	<0.21	<1	<5.2	<2.1	<1	<2.1	<1	<1	<5.2	<42	<5.2	<5.2	<1
UAW18-20	10/12/2001	NA	<10										<10	<10			<10		<10	6 J	<10				<10						<10		<10	<10						
	11/13/2001	NA	<10										<10	<10			<10		2.7 J	14	<10				<10						<10		<10	<10						
	10/18/2002	32	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/16/2003	16	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	4/7/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/7/2004	25	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/15/2005	2 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.5 U	<10	<10	1.4 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/6/2006	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 200	< 200	< 40	< 40	< 40
	11/16/2007	39	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.8 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/18/2008	6.9 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.1 J	< 10	< 10	11	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/24/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	2.8 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/17/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	0.84 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/7/2012	< 4.9	< 0.19	< 0.19	< 0.97	< 0.19	< 0.97	< 0.19	0.14 J	0.34	0.18 J	< 0.19	< 0.97	< 0.97	< 0.97	< 0.97	2.4 U	< 1.9	< 0.97	< 4.9	< 0.97	< 1.9	< 1.9	< 0.97	< 0.97	< 1.9	0.2	< 0.19	< 0.97	< 4.9	< 1.9	< 0.97	< 1.9	< 0.97	< 0.97	< 4.9	< 4.9	< 4.9	< 4.9	< 0.97
	12/14/2016	<4.8	<0.19	<0.19	<0.96	<0.19	<1.9	<0.19	<0.19	0.45	<0.19	0.2	<1.9	<0.96	<0.96	<0.96	<1.9	<1.9	<0.96	<4.8	<0.96	<1.9	<1.9	<0.96	<0.96	<1.9	0.37	<0.19	<0.96	<4.8	<1.9	<0.96	<1.9	<0.96	<0.96	<4.8	<38	<4.8	<4.8	<0.96
UAW19-80	5/11/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/14/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
UAW19-80 Dup	11/14/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(123-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitrosodi-n-propyl-amine	N-Nitrosodiphenylamine	2,2'-oxybis(1-Chloropropane)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane
Groundwater																																	
	11/7/2004		<100							<100	<100	11 J #	<100												<100				<100	<100	<100	<100	NA
UAW15-50 Dup	11/7/2004		<100							NA	<100	12 J #	NA												<100				<100	<100	<100	<100	NA
	11/15/2005	<200	<200	<200	<200	<1000	<200	<200	<200	<200	<200	8.2 J #	<200	<1000	<1000	<1000	<200	<200	<1000	<200	<200	<200	<200	<200	<200	<200	<200	<200	<3.3	<3.3	<3.3	<3.3	NA
	11/2/2006	< 100	< 100	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 500	< 100	< 100	< 500	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	NA	NA	NA	NA	NA
	11/19/2007	< 40	< 40	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 200	< 200	< 200	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	NA	NA	NA	NA	NA
	11/14/2008	< 40	< 40	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 200	< 200	< 200	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	NA	NA	NA	NA	NA
	11/11/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/23/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
UAW15-50 Dup	11/23/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/5/2012	< 0.19	< 0.19	< 0.19	< 0.96	< 9.6	< 0.96	< 0.19	< 0.96	< 0.19	< 0.96	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.96	< 1.9	< 4.8	< 0.96	< 0.96	< 0.96	< 4.8	< 0.19	< 0.96	< 0.19	< 4.8	< 4.8	NA	NA	NA	NA	NA
	12/8/2016	0.26	<0.2	<1	<1	<10	<1	<0.2	<1	<0.2	<1	<2	<0.2	<2	<2	<2	<1	<2	<5	<1	<1	<1	8.6 J	<0.2	<1	0.23	<5	<5	NA	NA	NA	NA	NA
UAW16-10	10/12/2001		<10							<10	<10	2.4 J #	<10												<10				<10	6.9 J	<10	12	NA
UAW16-10 Dup	10/12/2001		<10							<10	<10	3.4 J #	<10												<10				<10	6.2 J	<10	11	NA
	11/13/2001		<10							<10	<10	<10	<10												<10				<10	7.5 J	<10	10	NA
	10/18/2002		NA							NA	<10	<10	NA												NA				NA	7 J	NA	8.3 J	NA
	11/17/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
UAW16-10 Dup	11/17/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	4/7/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/7/2004		<40							<40	<40	<40	<40												<40				<40	7.5 J	<40	6.5 J	NA
	11/15/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	14	0.97 J	7.9	NA
	11/6/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/19/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/18/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/20/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/17/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/30/2012	< 0.2	< 0.2	< 0.2	< 0.98	< 9.8	< 0.98	< 0.2	< 0.98	< 0.2	< 0.98	< 2	< 0.2	< 2	< 2	< 2	< 0.98	< 2	< 4.9	< 0.98	< 0.98	< 0.98	< 4.9	< 0.2	< 0.98	< 0.2	< 4.9	< 4.9	NA	NA	NA	NA	NA
UAW16-10 Dup	11/30/2012	< 0.19	< 0.19	< 0.19	< 0.96	< 9.6	< 0.96	< 0.19	< 0.96	< 0.19	< 0.96	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.96	< 1.9	< 4.8	< 0.96	< 0.96	< 0.96	< 4.8	< 0.19	< 0.96	< 0.19	< 4.8	< 4.8	NA	NA	NA	NA	NA
	12/8/2016	<0.2	<0.2	<1	<1	<10	<1	<0.2	<1	<0.2	<1	<2	<0.2	<2	<2	<2	<1	<2	<5	<1	<1	<1	<40	<0.2	2.5	<0.2	<5	<5	NA	NA	NA	NA	NA
UAW16-10 Dup	12/8/2016	<0.19	<0.19	<0.96	<0.96	<9.6	<0.96	<0.19	<0.96	<0.19	<0.96	<1.9	<0.19	<1.9	<1.9	<1.9	<0.96	<1.9	<4.8	<0.96	<0.96	<0.96	<38	<0.19	1.6	<0.19	<4.8	<4.8	NA	NA	NA	NA	NA
UAW17-40	5/5/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/9/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/16/2002		NA							<10	<10	<10	<10												<10				<10	<10	NA	<10	NA
	11/16/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	3/31/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/6/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/14/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	10/31/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/19/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/7/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/13/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/11/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/13/2012	< 0.19	< 0.19	< 0.19	< 0.96	< 9.6	< 0.96	< 0.19	< 0.96	< 0.19	< 0.96	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.96	< 1.9	< 4.8	< 0.96	< 0.96	< 0.96	< 4.8	< 0.19	< 0.96	< 0.19	< 4.8	< 4.8	NA	NA	NA	NA	NA
	12/14/2016	<0.21	<0.21	<1	<1	<10	<1	<0.21	<1	<0.21	<1	<2.1	<0.21	<2.1	<2.1	<2.1	<1	<2.1	<5.2	<1	<1	<1	<42	<0.21	<1	<0.21	<5.2	<5.2	NA	NA	NA	NA	NA
UAW18-20	10/12/2001		<10							<10	<10	<10	<10												<10				<10	5.7 J	<10	2.8 J	NA
	11/13/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/18/2002		NA							NA	<10	<10	NA												NA				NA	3 J	NA	1.8 J	NA
	11/16/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	4/7/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/7/2004		<10							<10	<10	<10	<10												<10				<10	2.3 J	<10	1.3 J	NA
	11/15/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	0.39 J	<1	0.24 J	NA
	11/6/2006	< 40	< 40	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 200	< 200	< 200	< 40	< 40	< 200	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	< 40	NA	NA	NA	NA	NA
	11/16/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/18/2008	0.24 J	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/24/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/17/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	0.54 J	< 10	< 50	< 10	< 10	< 10	< 10	< 10	0.95 J	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/7/2012	0.31	< 0.19	< 0.19	< 0.97	< 9.7	< 0.97	0.34	< 0.97	< 0.19	< 0.97	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.97	< 1.9	< 4.9	< 0.97	< 0.97	< 0.97	< 4.9	< 0.19	< 0.97	0.27	< 4.9	< 4.9	NA	NA	NA	NA	NA
	12/14/2016	0.59	<0.19	<0.96	<0.96	<9.6	<0.96	<0.19	<0.96	<0.19	<0.96	<1.9	<0.19	<1.9	<1.9	<1.9	<0.96	<1.9	<4.8	<0.96	<0.96	<0.96	<38	0.24	<0.96	0.49	<4.8	<4.8	NA	NA	NA	NA	NA
UAW19-80	5/11/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/14/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
UAW19-80 Dup	11/14/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Aniline	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzo(a)anthracene	Benzo(e)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Benzaldehyde	1,1'-Biphenyl	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl) phthalate	4-Bromophenyl phenl ether	Butyl benzyl phthalate	Caprolactam	Carbazole	4-Chloroaniline	4-Chloro-3-methylphenol	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenyl phenyl ether	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate	Di-n-butyl phthalate	4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octyl phthalate
Groundwater																																									
	10/17/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
UAW19-80 Dup	10/17/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/13/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	3/30/2004	<10	<10										<10	<10			14		<10	<10	<10				<10						<10		<10	<10						
	11/5/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
UAW19-80N	11/11/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.2 U	<10	<10	61 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
UAW19-80N(2X dilution)	11/11/2005	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1.1 J B	<20	<20	63	<20	<20	<20	<20	<20	<20	<20	<20	<20	<100	<20	<20	<20	<20	<20	<100	<100	<20	<20	<20
UAW19-80 Dup	11/11/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.4 U	<10	1.6 J	47	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/8/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/14/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/11/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/23/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/23/2010	< 10	< 10	< 10	< 10	< 10	< 10	0.71 J	0.48 J	0.64 J	0.23 J	0.32 J	< 10	< 10	< 10	< 10	0.83 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	0.82 J	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/7/2012	< 4.8	< 0.19	< 0.19	< 0.95	< 0.19	< 0.95	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.95	< 0.95	< 0.95	< 0.95	< 1.9	< 1.9	< 0.95	< 4.8	< 0.95	< 1.9	< 1.9	< 0.95	< 0.95	< 1.9	< 0.19	< 0.19	< 0.95	< 4.8	< 1.9	< 0.95	< 1.9	< 0.95	< 0.95	< 4.8	< 4.8	< 4.8	< 4.8	< 0.95
	12/15/2016	<5.2	<0.21	<0.21	<1	<0.21	<2.1	<0.21	<0.21	<0.21	<0.21	<0.21	<2.1	<1	<1	<1	<2.1	<2.1	<1	<5.2	<1	<2.1	<2.1	<1	<1	<2.1	<0.21	<0.21	<1	<5.2	<2.1	<1	<2.1	<1	<1	<5.2	<42	<5.2	<5.2	<1
UAW20-60	5/7/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/14/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
UAW20-60 Dup	11/14/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/19/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
UAW20-60 Dup	10/19/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/13/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	3/30/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/5/2004	<10	<10										<10	<10			1.2 J		<10	<10	<10				<10						<10		<10	<10						
	11/11/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.58 U	<10	<10	35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/7/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/15/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/18/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/23/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/18/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/10/2012	< 5.2	< 0.21	< 0.21	< 1	< 0.21	< 1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1	< 1	< 1	< 1	< 2.1	< 2.1	< 1	< 5.2	< 1	< 2.1	< 2.1	< 1	< 1	< 2.1	< 0.21	< 0.21	< 1	< 5.2	< 2.1	< 1	< 2.1	< 1	< 1	< 5.2	< 5.2	< 5.2	< 5.2	< 1
	12/14/2016	<5.4	<0.23	<0.23	<1.1	<0.23	<2.3	<0.23	<0.23	<0.23	<0.23	<0.23	<2.3	<1.1	<1.1	<1.1	<2.3	<2.3	<1.1	<5.7	<1.1	<2.3	<2.3	<1.1	<1.1	<2.3	<0.2	<0.23	<1.1	<5.7	<2.3	<1.1	<2.3	<1.1	<1.1	<5.7	<45	<5.7	<5.7	<1.1
UAW20-60 Dup	12/14/2016	<5.4	<0.22	<0.22	<1.1	<0.22	<2.2	<0.22	<0.22	<0.22	<0.22	<0.22	<2.2	<1.1	<1.1	<1.1	<2.2	<2.2	<1.1	<5.4	<1.1	<2.2	<2.2	<1.1	<1.1	<2.2	<0.22	<0.22	<1.1	<5.4	<2.2	<1.1	<2.2	<1.1	<1.1	<5.4	<43	<5.4	<5.4	<1.1
UAW21-30	5/5/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/11/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/18/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/11/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	3/27/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/3/2004	<10	<10										<10	<10			1.2 J		<10	<10	<10				<10						<10		<10	<10						
	11/9/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/9/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.2 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	0.62 J	< 50	< 50	< 10	< 10	< 10
	11/6/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/5/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/13/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/15/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/14/2012	< 4.9	< 0.19	< 0.19	< 0.97	< 0.19	< 0.97	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.97	< 0.97	< 0.97	< 0.97	47	< 1.9	< 0.97	< 4.9	< 0.97	< 1.9	< 1.9	< 0.97	< 0.97	< 1.9	< 0.19	< 0.19	< 0.97	< 4.9	< 1.9	< 0.97	< 1.9	< 0.97	< 0.97	< 4.9	< 4.9	< 4.9	< 4.9	< 0.97
	12/13/2016	<5.7	<0.23	<0.23	<1.1	<0.23	<2.3	<0.23	<0.23	<0.23	<0.23	<0.23	<2.3	<1.1	<1.1	<1.1	<2.3	<2.3	<1.1	<5.7	<1.1	<2.3	<2.3	<1.1	<1.1	<2.3	<0.23	<0.23	<1.1	<5.7	<2.3	<1.1	<2.3	<1.1	<1.1	<5.7	<45	<5.7	<5.7	<1.1
UAW21-80	5/5/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/11/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/18/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/11/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	3/27/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/3/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/8/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.0 J B	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/8/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/6/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/5/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/13/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/15/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	0.83 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/14/2012	< 4.8	< 0.19	< 0.19	< 0.96	< 0.19	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 0.96	< 0.96	< 0.96	1.9 U	< 1.9	< 0.96	< 4.8	< 0.96	< 1.9	< 1.9	< 0.96	< 0.96	< 1.9	< 0.19	< 0.19	< 0.96	< 4.8	< 1.9	< 0.96	< 1.9	< 0.96	< 0.96	< 4.8	< 4.8	< 4.8	< 4.8	< 0.96
	12/13/2016	<5	<0.2	<0.2	<1	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<1	<1	<1	<2	<2	<1	<5	<1	<2	<2	<1	<1	<2	<0.2	<0.2	<1	<5	<2	<1	<2	<1	<1	<5	<40	<5	<5	<1

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(123-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitrosodi-n-propyl-amine	N-Nitrosodiphenylamine	2,2'-oxybis(1-Chloropropane)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane
Groundwater																																	
	10/17/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
UAW19-80 Dup	10/17/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
	11/13/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	3/30/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/5/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
UAW19-80N	11/11/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
UAW19-80N(2X dilution)	11/11/2005	<20	<20	<20	<20	<100	<20	<20	<20	<20	<20	<20	<20	<100	<100	<100	<20	<20	<100	<20	<20	<20	<20	<20	<20	<20	<20	<20	<1	<1	<1	<1	NA
UAW19-80 Dup	11/11/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	11/8/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/14/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/11/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/23/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/23/2010	1.5 J	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	0.27 J	< 10	1.2 J	< 10	< 10	NA	NA	NA	NA	NA
	12/7/2012	< 0.19	< 0.19	< 0.19	< 0.95	< 9.5	< 0.95	< 0.19	< 0.95	< 0.19	< 0.95	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.95	< 1.9	< 4.8	< 0.95	< 0.95	< 0.95	< 4.8	< 0.19	< 0.95	< 0.19	< 4.8	< 4.8	NA	NA	NA	NA	NA
	12/15/2016	<0.21	<0.21	<1	<1	<10	<1	<0.21	<1	<0.21	<1	<2.1	<0.21	<2.1	<2.1	<2.1	<1	<2.1	<5.2	<1	<1	<1	<42	<0.21	<1	<0.21	<5.2	<5.2	NA	NA	NA	NA	NA
UAW20-60	5/7/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/14/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
UAW20-60 Dup	11/14/2001		<10							<10	<10	<10	NA												<10				<10	<10	<10	<10	NA
	10/19/2002		NA							<10	<10	<10	<10												NA				NA	<10	NA	<10	NA
UAW20-60 Dup	10/19/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
	11/13/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	3/30/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/5/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/11/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<50	NA
	11/7/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/15/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/18/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/23/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/18/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/10/2012	< 0.21	< 0.21	< 0.21	< 1	< 10	< 1	< 0.21	< 1	< 0.21	< 1	< 2.1	< 0.21	< 2.1	< 2.1	< 2.1	< 1	< 2.1	< 5.2	< 1	< 1	< 1	< 5.2	< 0.21	< 1	< 0.21	< 5.2	< 5.2	NA	NA	NA	NA	NA
	12/14/2016	<0.23	<0.32	<1.1	<1.1	<11	<1.1	<0.23	<1.1	<0.23	<1.1	<2.3	<0.23	<2.3	<2.3	<2.3	<1.1	<2.3	<5.7	<1.1	<1.1	<1.1	<45	<0.23	<1.1	<0.23	<5.7	<5.7	NA	NA	NA	NA	NA
UAW20-60 Dup	12/14/2016	<0.22	<0.22	<1.1	<1.1	<11	<1.1	<0.22	<1.1	<0.22	<1.1	<2.2	<0.22	<2.2	<2.2	<2.2	<1.1	<2.2	<5.4	<1.1	<1.1	<1.1	<43	<0.22	<1.1	<0.22	<5.4	<5.4	NA	NA	NA	NA	NA
UAW21-30	5/5/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/11/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/18/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
	11/11/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	3/27/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/3/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/9/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	11/9/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/6/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/5/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/13/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/15/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/14/2012	< 0.19	< 0.19	< 0.19	< 0.97	< 9.7	< 0.97	< 0.19	< 0.97	< 0.19	< 0.97	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.97	< 1.9	< 4.9	< 0.97	< 0.97	< 0.97	< 4.9	< 0.19	< 0.97	< 0.19	< 4.9	< 4.9	NA	NA	NA	NA	NA
	12/13/2016	<0.23	<0.23	<1.1	<1.1	<11	<1.1	<0.23	<1.1	<0.23	<1.1	<2.3	<0.23	<2.3	<2.3	<2.3	<1.1	<2.3	<5.7	<1.1	<1.1	<1.1	<45	<0.23	<1.1	<0.23	<5.7	<5.7	NA	NA	NA	NA	NA
UAW21-80	5/5/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/11/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/18/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
	11/11/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	3/27/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/3/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/8/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	11/8/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/6/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/5/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/13/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/15/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/14/2012	< 0.19	< 0.19	< 0.19	< 0.96	< 9.6	< 0.96	< 0.19	< 0.96	< 0.19	< 0.96	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.96	< 1.9	< 4.8	< 0.96	< 0.96	< 0.96	< 4.8	< 0.19	< 0.96	< 0.19	< 4.8	< 4.8	NA	NA	NA	NA	NA
	12/13/2016	<0.2	<0.2	<1	<1	<10	<1	<0.2	<1	<0.2	<1	<2	<0.2	<2	<2	<2	<1	<2	<5	<1	<1	<1	<40	<0.2	<1	<0.2	<5	<5	NA	NA	NA	NA	NA

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Aniline	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzo(a)anthracene	Benzo(e)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Benzaldehyde	1,1'-Biphenyl	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl) phthalate	4-Bromophenyl phenl ether	Butyl benzyl phthalate	Caprolactam	Carbazole	4-Chloroaniline	4-Chloro-3-methylphenol	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenyl phenyl ether	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate	Di-n-butyl phthalate	4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octyl phthalate
Groundwater																																									
UAW22-20	10/13/2001	NA	<10										<10	<10			<10		<10	2.5 J	<10				<10						<10		<10	<10						
	11/13/2001	NA	<10										<10	<10			<10		2.3 J	2.6 J	<10				<10						<10		<10	<10						
	10/20/2002	<50	NA										<50	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/10/2003	<20	<20										<20	<20			<20		<20	<20	<20				<20						<20		<20	<20						
	3/29/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/4/2004	2.2 J	<10										<10	<10			<10		<10	2 J	<10				<10						<10		<10	<10						
	11/14/2005	1.9 J	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	5.7 J	<40	<40	<40	<40	<40	<40	<40	<40	<40	<200	<40	<40	<40	<40	<40	<200	<200	<40	<40	<40
	11/9/2006	1.2 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/16/2007	5.3 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/13/2008	3.5 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
UAW22-20 Dup	11/13/2008	3.6 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/11/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/15/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
UAW22-20 Dup	11/15/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/7/2012	< 4.8	< 0.19	< 0.19	< 0.95	< 0.19	< 0.95	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.95	< 0.95	< 0.95	< 0.95	< 1.9	< 1.9	< 0.95	0.87 J	< 0.95	< 1.9	< 1.9	< 0.95	< 0.95	< 1.9	< 0.19	< 0.19	< 0.95	< 4.8	< 1.9	14	< 1.9	< 0.95	< 0.95	< 4.8	< 4.8	< 4.8	< 4.8	< 0.95
	12/14/2016	<5.7	0.62	<0.23	<1.1	1.1	<2.3	2.2	2.1	3.1	1.1	1.5	<2.3	<1.1	<1.1	<1.1	<2.3	<2.3	<1.1	<5.7	1.7	<2.3	<2.3	<1.1	<1.1	<2.3	2.4	<0.23	0.36 J	<5.7	<2.3	<1.1	<2.3	<1.1	<1.1	<5.7	<45	<5.7	<5.7	<1.1
UAW23-20	10/12/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/14/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/19/2002	<10	<10										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/13/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	3/28/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/5/2004	<10	<10										<10	<10			<10		<10	0.91 J	<10				<10						<10		<10	<10						
	11/14/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.60 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/6/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/13/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/13/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/24/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/17/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	0.8 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/10/2012	< 5.3	< 0.21	< 0.21	< 1.1	< 0.21	< 1.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1.1	< 1.1	< 1.1	< 1.1	< 2.1	< 2.1	< 1.1	< 5.3	< 1.1	< 2.1	< 2.1	< 1.1	< 1.1	< 1.1	< 2.1	< 0.21	< 0.21	< 1.1	< 5.3	< 2.1	< 1.1	< 2.1	< 1.1	< 1.1	< 5.3	< 5.3	< 5.3	< 5.3	< 1.1
	12/13/2016	<5	<0.2	<0.2	<1	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<1	<1	<1	<2	<2	<1	<5	<1	<2	<2	<1	<1	<2	<0.2	<0.2	<1	<5	<2	<1	<2	<1	<1	<5	<40	<5	<5	<1
UAW24-70	10/13/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/15/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/17/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/16/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	4/5/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/6/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/16/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.79 U	<10	<10	0.84 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	10/31/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/7/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/13/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/24/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/22/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/13/2012	< 4.9	< 0.19	< 0.19	< 0.97	< 0.19	< 0.97	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.97	< 0.97	< 0.97	< 0.97	< 1.9	< 1.9	< 0.97	< 4.9	< 0.97	< 1.9	< 1.9	< 0.97	< 0.97	< 0.97	< 0.19	< 0.19	< 0.97	< 4.9	< 1.9	< 0.97	< 1.9	< 0.97	< 0.97	< 4.9	< 4.9	< 4.9	< 4.9	< 0.97
	12/15/2016	<5.2	<0.21	<0.21	<1	<0.21	<2.1	0.22	<0.21	<0.21	<0.21	<0.21	<2.1	<1	<1	<1	<2.1	<2.1	<1	<5.2	<1	<2.1	<2.1	<1	<1	<2.1	0.26	<0.21	<1	<5.2	<2.1	<1	<2.1	<1	<1	<5.2	<42	<5.2	<5.2	<1
UAW25-20	10/13/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/13/2001	NA	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	10/18/2002	<10	NA										<10	NA			NA		NA	NA	NA				NA						NA		NA	NA						
	11/12/2003	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	3/27/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/3/2004	1.3 J	<10										<10	<10			2.3 J B		<10	<10	<10				<10						<10		<10	<10						
	11/9/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/8/2006	1.9 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/8/2007	1.2 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/3/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/12/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/12/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/29/2012	< 5.3	< 0.21	< 0.21	< 1.1	< 0.21	< 1.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1.1	< 1.1	< 1.1	< 1.1	< 2.1	< 2.1	< 1.1	< 5.3	< 1.1	< 2.1	< 2.1	< 1.1	< 1.1	< 1.1	< 2.1	< 0.21	< 0.21	< 1.1	< 5.3	< 2.1	< 1.1	< 2.1	< 1.1	< 1.1	< 5.3	< 5.3	< 5.3	< 5.3	< 1.1
	12/6/2016	<5.4	<0.22	<0.22	<1.1	<0.22	<2.2	<0.22	<0.22	<0.22	<0.22	<0.22	<2.2	<1.1	<1.1	<1.1	<2.2	<2.2	<1.1	4.3 J	<1.1	<2.2	<2.2	<1.1	<1.1	<2.2	<0.22	<0.22	<1.1	<5.4	<2.2	<1.1	<2.2	<1.1	<0.45	<5.4	<43	<5.4	<5.4	<1.1
UAW26-70	4/6/2004	<10	<10										<10	<10			<10		<10	<10	<10				<10						<10		<10	<10						
	11/6/2004	<10	<10										<10	<10			1.7 J B		<10	<10	<10				<10						<10		<10	<10						

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(123-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitrosodi-n-propyl-amine	N-Nitrosodiphenylamine	2,2'-oxybis(1-Chloropropane)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane
Groundwater																																	
UAW22-20	10/13/2001		<10							<10	<10	<10	<10												<10				<10	70	1.6 J	9.7 J	NA
	11/13/2001		<10							<10	<10	<10	<10												<10				<10	78	1.7 J	9.9 J	NA
	10/20/2002		NA							NA	<50	<50	NA												NA				NA	60	NA	10 J	NA
	11/10/2003		<20							<20	<20	<20	<20												<20				<20	44	<20	<20	NA
	3/29/2004		<10							<10	<10	<10	<10												<10				<10	31	<10	<10	NA
	11/4/2004		<10							<10	<10	<10	0.89 J												<10				<10	34	0.88 J	6.8 J	NA
	11/14/2005	<40	<40	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40	<200	<200	<200	<40	<40	<200	<40	<40	<40	<40	<40	<40	<40	<40	<40	<2	74	1.4 J	8.7	NA
	11/9/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/16/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	1.2 J	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/13/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
UAW22-20 Dup	11/13/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/11/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/15/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
UAW22-20 Dup	11/15/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/7/2012	< 0.19	< 0.19	< 0.19	< 0.95	< 9.5	< 0.95	< 0.19	< 0.95	< 0.19	< 0.95	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.95	< 1.9	< 4.8	< 0.95	< 0.95	< 0.95	< 4.8	< 0.19	< 0.95	< 0.19	< 4.8	< 4.8	NA	NA	NA	NA	NA
	12/14/2016	5.9	0.39	<1.1	<1.1	<11	<1.1	1.1	<1.1	<0.23	<1.1	<2.3	0.23	<2.3	<2.3	<2.3	<1.1	<2.3	<5.7	<1.1	<1.1	<1.1	<45	3.2	0.38 J	4.6	<5.7	<5.7	NA	NA	NA	NA	NA
UAW23-20	10/12/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/14/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/19/2002		NA							NA	<10	<10	NA												<10				<10	<10	NA	<10	NA
	11/13/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	3/28/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/5/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/14/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1.4	<1.4	<1.4	<1.4	NA
	11/6/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/13/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/13/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/24/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/17/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/10/2012	0.16 J	< 0.21	< 0.21	< 1.1	< 11	< 1.1	< 0.21	< 1.1	< 0.21	< 1.1	< 2.1	< 0.21	< 2.1	< 2.1	< 2.1	< 1.1	< 2.1	< 5.3	< 1.1	< 1.1	< 1.1	< 5.3	< 0.21	< 1.1	0.17 J	< 5.3	< 5.3	NA	NA	NA	NA	NA
	12/13/2016	<0.2	<0.2	<1	<1	<10	<1	<0.2	<1	<0.2	<1	<2	<0.2	<2	<2	<2	<1	<2	<5	<1	<1	<1	<40	<0.2	<1	<0.2	<5	<5	NA	NA	NA	NA	NA
UAW24-70	10/13/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/15/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	10/17/2002		NA							NA	<10	<10	NA												NA				NA	<10	NA	<10	NA
	11/16/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	4/5/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/6/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/16/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	10/31/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/7/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	1.7 J	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/13/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	1.1 J	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/24/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/22/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/13/2012	< 0.19	< 0.19	< 0.19	< 0.97	< 9.7	< 0.97	< 0.19	< 0.97	< 0.19	< 0.97	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.97	< 1.9	< 4.9	< 0.97	< 0.97	< 0.97	< 4.9	< 0.19	< 0.97	< 0.19	< 4.9	< 4.9	NA	NA	NA	NA	NA
	12/15/2016	0.55	<0.21	<1	<1	<10	<1	<0.21	<1	<0.21	<1	<2.1	<0.21	<2.1	<2.1	<2.1	<1	<2.1	<5.2	<1	<1	<1	<42	0.41	<1	0.45	<5.2	<5.2	NA	NA	NA	NA	NA
UAW25-20	10/13/2001		<10							<10	<10	<10	<10												<10				<10	11	<10	3 J	NA
	11/13/2001		<10							<10	<10	<10	<10												<10				<10	11	<10	3.2 J	NA
	10/18/2002		NA							NA	<10	<10	NA												NA				NA	5.6 J	NA	1.7 J	NA
	11/12/2003		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	3/27/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/3/2004		<10							<10	<10	<10	<10												<10				<10	6.4 J	<10	2.4 J	NA
	11/9/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	10	0.42 J	3.3	NA
	11/8/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/8/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/3/2008	< 10	< 10	< 10	< 10	< 50 UJ	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/12/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/12/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/29/2012	< 0.21	< 0.21	< 0.21	< 1.1	< 11	< 1.1	< 0.21	< 1.1	< 0.21	< 1.1	< 2.1	< 0.21	< 2.1	< 2.1	< 2.1	< 1.1	< 2.1	< 5.3	< 1.1	< 1.1	< 1.1	< 5.3	< 0.21	< 1.1	< 0.21	< 5.3	< 5.3	NA	NA	NA	NA	NA
	12/6/2016	<0.22	<0.22	<1.1	<1.1	<11	<1.1	<0.22	<1.1	<0.22	<1.1	<2.2	<0.22	<2.2	<2.2	<2.2	<1.1	<2.2	<5.4	<1.1	<1.1	<1.1	<43	<0.22	<1.1	<0.22	<5.4	<5.4	NA	NA	NA	NA	NA
UAW26-70	4/6/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/6/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Aniline	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzo(a)anthracene	Benzo(e)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Benzaldehyde	1,1'-Biphenyl	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Ethylhexyl) phthalate	4-Bromophenyl phenl ether	Butyl benzyl phthalate	Caprolactam	Carbazole	4-Chloroaniline	4-Chloro-3-methylphenol	2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenyl phenyl ether	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate	2,4-Dimethylphenol	Dimethyl phthalate	Di-n-butyl phthalate	4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octyl phthalate
Groundwater																																									
	11/10/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.99 U	<10	<10	1.5 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/7/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/14/2007	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
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	11/19/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/17/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/3/2012	< 4.8	< 0.19	< 0.19	< 0.95	< 0.19	< 0.95	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.95	< 0.95	< 0.95	< 0.95	< 1.9	< 1.9	< 0.95	< 4.8	< 0.95	< 1.9	< 1.9	< 0.95	< 0.95	< 1.9	< 0.19	< 0.19	< 0.95	< 4.8	< 1.9	< 0.95	< 1.9	< 0.95	< 0.95	< 4.8	< 4.8	< 4.8	< 4.8	< 0.95
	12/8/2016	<6	<0.24	<0.24	<1.2	<0.24	<2.4	<0.24	<0.24	<0.24	<0.24	<0.24	<2.4	<1.2	<1.2	<1.2	<2.4	<2.4	<1.2	<6	<1.2	<2.4	<2.4	<1.2	<1.2	<2.4	<0.24	<0.24	<1.2	<6	<2.4	<1.2	<2.4	<1.2	<1.2	<6	<48	<6	<6	<1.2
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	11/11/2005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	0.59 U	<10	<10	1.7 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
	11/1/2006	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.1 J B	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
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	11/13/2008	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/11/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	11/22/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
	12/14/2012	< 5.1	< 0.2	< 0.2	< 1	< 0.2	< 1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1	< 1	< 1	< 1	< 2	< 2	< 1	< 5.1	< 1	< 2	< 2	< 1	< 1	< 2	< 0.2	< 0.2	< 1	< 5.1	< 2	< 1	< 2	< 1	< 1	< 5.1	< 5.1	< 5.1	< 5.1	< 1
	12/15/2016	<5	<0.2	<0.2	<1	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<1	<1	<1	<2	<2	<1	<5	<1	<2	<2	<1	<1	<2	<0.2	<0.2	<1	<5	<2	<1	<2	<1	<1	<5	<40	<5	<5	<1
LAW05-150	3/16/2002	<10	<10										NA	NA			<10		<10	NA	NA				<10						<10		<10	<10						
LAW05-150 Dup	3/16/2002	<10	<10										NA	NA			<10		<10	NA	NA				<10						<10		<10	<10						
	11/17/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
LAW05-60	3/16/2002	<10	<10										NA	NA			<10		<10	NA	NA				<10						<10		<10	<10						
	11/17/2009	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
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20091120CINFB-1	11/20/2009	< 10	< 10	< 10	0.6 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	10 U	< 10	< 10	< 10	< 10	< 10	4.1 J	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	0.91 J	< 50	< 50	< 10	< 10	< 10
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20101129CINFB-1	11/29/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
20101130CINEQBLK-2	11/30/2010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	0.93 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 10	< 10	< 10
20121207CINEQBLK	12/7/2012	< 4.9	< 0.2	< 0.2	< 0.98	< 0.2	< 0.98	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.98	< 0.98	< 0.98	< 0.98	< 2	< 2	< 0.98	< 4.9	< 0.98	< 2	< 2	< 0.98	< 0.98	< 2	< 0.2	< 0.2	< 0.98	< 4.9	< 2	< 0.98	< 2	< 0.98	< 0.98	< 4.9	< 4.9	< 4.9	< 4.9	< 0.98
20121207CINFB-1	12/7/2012	< 4.8	< 0.19	< 0.19	< 0.95	< 0.19	< 0.95	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.95	< 0.95	< 0.95	< 0.95	0.76 J	< 1.9	< 0.95	< 4.8	< 0.95	< 1.9	< 1.9	< 0.95	< 0.95	< 1.9	< 0.19	< 0.19	< 0.95	< 4.8	< 1.9	< 0.95	< 1.9	< 0.95	< 0.95	< 4.8	< 4.8	< 4.8	< 4.8	< 0.95
20121213CINRB-2	12/13/2012	< 5.3	< 0.21	< 0.21	< 1.1	< 0.21	< 1.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1.1	< 1.1	< 1.1	< 1.1	< 2.1	< 2.1	< 1.1	< 5.3	< 1.1	< 2.1	< 2.1	< 1.1	< 1.1	< 2.1	< 0.21	< 0.21	< 1.1	< 5.3	< 2.1	< 1.1	< 2.1	< 1.1	< 1.1	< 5.3	< 5.3	< 5.3	< 5.3	< 1.1
20161202CINFB-1	12/2/2016	<5	<0.2	<0.2	<1	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<1	<1	<1	<2	<2	<1	<5	<1	<2	<2	<1	<1	<2	<0.2	<0.2	<1	<5	<2	<1	<2	<1	<1	<5	<40	<5	<5	<1
20161213CINRB-1	12/13/2016	<4.8	<0.19	<0.19	<0.96	<0.19	<1.9	<0.19	<0.19	<0.19	<0.19	<0.19	<1.9	<0.96	<0.96	<0.96	<1.9	<1.9	<0.96	<4.8	<0.96	<1.9	<1.9	<0.96	<0.96	<1.9	<0.19	<0.19	<0.96	<4.8	<1.9	<0.96	<1.9	<0.96	<0.96	<4.8	<38	<4.8	<4.8	<0.96
20161215CINRB-2	12/15/2016	<4.6	<0.19	<0.19	<0.93	<0.19	<1.9	<0.19	<0.19	<0.19	<0.19	<0.19	<1.9	<0.93	<0.93	<0.93	<1.9	<1.9	<0.93	<4.6	<0.93	<1.9	<1.9	<0.93	<0.93	<1.9	<0.19	<0.19	<0.93	<4.6	<1.9	<0.93	<1.9	<0.93	<0.93	<4.6	<37	<4.6	<4.6	<0.93

Table B-2
Summary of Semi-volatile Organic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

SAMPLE LOCATION	SAMPLE DATE	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(123-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	Naphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	2-Nitrophenol	4-Nitrophenol	N-Nitrosodi-n-propyl-amine	N-Nitrosodiphenylamine	2,2'-oxybis(1-Chloropropane)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane
Groundwater																																	
	11/10/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	11/7/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/14/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/6/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/19/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/17/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/3/2012	< 0.19	< 0.19	< 0.19	< 0.95	< 9.5	< 0.95	< 0.19	< 0.95	< 0.19	< 0.95	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.95	< 1.9	< 4.8	< 0.95	< 0.95	< 0.95	< 4.8	< 0.19	< 0.95	< 0.19	< 4.8	< 4.8	NA	NA	NA	NA	NA
	12/8/2016	<0.24	<0.24	<1.2	<1.2	<12	<1.2	<0.24	<1.2	<0.24	<1.2	<2.4	<0.24	<2.4	<2.4	<2.4	<1.2	<2.4	<6	<1.2	<1.2	<1.2	<48	<0.24	<1.2	<0.24	<6	<6	NA	NA	NA	NA	NA
UAW27-50	3/31/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/5/2004		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	NA
	11/11/2005	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<50	<50	<50	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	<1	<1	NA
	11/1/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/13/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/13/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/11/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	11/22/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
	12/14/2012	< 0.2	< 0.2	< 0.2	< 1	< 10	< 1	< 0.2	< 1	< 0.2	< 1	< 2	0.11 J	< 2	< 2	< 2	< 1	< 2	< 5.1	< 1	< 1	< 1	< 5.1	< 0.2	< 1	< 0.2	< 5.1	< 5.1	NA	NA	NA	NA	NA
	12/15/2016	<0.2	<0.2	<1	<1	<10	<1	<0.2	<1	<0.2	<1	<2	<0.2	<2	<2	<2	<1	<2	<2	<1	<1	<1	<40	<0.2	<1	<0.2	<5	<5	NA	NA	NA	NA	NA
LAW05-150	3/16/2002		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	<10
LAW05-150 Dup	3/16/2002		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	<10
	11/17/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
LAW05-60	3/16/2002		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	<10
	11/17/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
LAW12-60	10/13/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	1.6 J
	11/16/2001		<10							<10	<10	<10	<10												<10				<10	<10	<10	<10	1.5 J
	11/19/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20061102CINEB-1	11/2/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20061106CINEB-1	11/6/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20061106CINFB-1	11/6/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20061108CINFB-1	11/8/2006	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20071107CINEB-1	11/7/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20071107CINFB-1	11/7/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20071115CINEB-2	11/15/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20071115CINFB-2	11/15/2007	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	1 J	< 10	< 10	< 10	NA	NA	NA	NA	NA
20081104CINEB-1	11/4/2008	< 10	< 10	< 10	< 10	< 50 UJ	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20081113CINFB-1	11/13/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20081114CINEB-1	11/14/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20081118CINEB-1	11/18/2008	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20091117CINEB-1	11/17/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20091120CINFB-1	11/20/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20091123CINEB-1	11/23/2009	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20101118CINEQBLK-1	11/18/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20101129CINFB-1	11/29/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20101130CINEQBLK-2	11/30/2010	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 10	< 10	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA
20121207CINEQBLK	12/7/2012	< 0.2	< 0.2	< 0.2	< 0.98	< 9.8	< 0.98	< 0.2	< 0.98	< 0.2	< 0.98	< 2	< 0.2	< 2	< 2	< 2	< 0.98	< 2	< 4.9	< 0.98	< 0.98	< 0.98	< 4.9	< 0.2	< 0.98	< 0.2	< 4.9	< 4.9	NA	NA	NA	NA	NA
20121207CINFB-1	12/7/2012	< 0.19	< 0.19	< 0.19	< 0.95	< 9.5	< 0.95	< 0.19	< 0.95	< 0.19	< 0.95	< 1.9	< 0.19	< 1.9	< 1.9	< 1.9	< 0.95	< 1.9	< 4.8	< 0.95	< 0.95	< 0.95	< 4.8	< 0.19	< 0.95	< 0.19	< 4.8	< 4.8	NA	NA	NA	NA	NA
20121213CINRB-2	12/13/2012	< 0.21	< 0.21	< 0.21	< 1.1	< 11	< 1.1	< 0.21	< 1.1	< 0.21	< 1.1	< 2.1	< 0.21	< 2.1	< 2.1	< 2.1	< 1.1	< 2.1	< 5.3	< 1.1	< 1.1	< 1.1	< 5.3	< 0.21	< 1.1	< 0.21	< 5.3	< 5.3	NA	NA	NA	NA	NA
20161202CINFB-1	12/2/2016	<0.2	<0.2	<1	<1	<10	<1	<0.2	<1	<0.2	<1	<2	<0.2	<2	<2	<2	<1	<2	<5	<1	<1	<1	<40	<0.2	<1	<0.2	<5	<5	NA	NA	NA	NA	NA
20161213CINRB-1	12/13/2016	<0.19	<0.19	<0.96	<0.96	<9.6	<0.96	<0.19	<0.96	<0.19	<0.96	<1.9	<0.19	<1.9	<1.9	<1.9	<0.96	<1.9	<4.8	<0.96	<0.96	<0.96	<38	<0.19	<0.96	<0.19	<4.8	<4.8	NA	NA	NA	NA	NA
20161215CINRB-2	12/15/2016	<0.19	<0.19	<0.93	<0.93	<9.3	<0.93	<0.19	<0.93	<0.19	<0.93	<1.9	<0.19	<1.9	<1.9	<1.9	<0.93	<1.9	<4.6	<0.93	<0.93	<0.93	<37	<0.19	<0.93	<0.19	<4.6	<4.6	NA	NA	NA	NA	NA

Notes:
B = Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J = Estimated result; result is less than reporting limit.
# = Co-Elution of 3-Methylphenol and 4-Methylphenol.
NA indicates chemical was not on the target analyte list for that sample.
<10 = Indicates constituent not detected at or above indicated detection limit.
This table only includes target analytes detected in one or more Facility Investigation samples.

Table B-3
Summary of Inorganic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
DP53-12.5'	3/11/2004	NA	NA	15.6	NA	NA	NA	NA	10.9	NA	NA	NA	8.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	2550	NA	NA
MW-EPA-1	5/8/2001	129 B	3.3 B	246	287	<5	<2	354000	73	2.1 B	<25	7800	<3	126000	330	<0.2	112	12000	<5	<5	472000	7.6 B	NA	4.6 B	<20
	11/15/2001	138 B J	<10	611	217 J	<5	<2	435000 J	9.8	1.4 B	<25	2140	<3	173000	520	<0.2	32.1 B	17600 J	<5	<5	642000	5.6 B	NA	5.8 B	<20
	10/20/2002	164 B J	<10	460	244	<5	<2	302000 J	14.7	1.1 B	<25	2540	<3	172000	219	<0.2	20.5 B	15500 J	<5	NA	643000	5.3 B	2280	4.9 B	16.5 B
	11/12/2003	215	3.1 B	465	260 J	<5	<2	425000 J	26.2	<7	<25	2450	<3	173000 J	323 J	<0.2	19.3 B	16000 J	<5	<5	754000	8 B	3390	5.5 B	20.2 J
	3/28/2004	313 J	<10	483	246	<5	<2	466000	37.2	<7	5 B J	1600	<3	148000	479 J	<0.2	19.7 B	16000 J	<5	<5	767000	<10	3380	6.4 B	27.9
	11/4/2004	365 J	<10	215	209	<5	0.38 B J	338000	14.4	1.5 B J	<25	2030	<3	123000 J	338 J	<0.2	7.6 B	13200 J	<5	<5	577000	6.4 B	1340	3.1 B	<20
	11/15/2005	69.4 B	<10	596	145 B	0.59 U	0.45 B	370000	12.9	2.5 B	3.0 B	1810	<3	97500	475	<0.2	13.9 B	13100 J	<5	<5	621000	<10	2430	7.2	41.1
	11/8/2006	138 B	< 10	293	243	< 5	< 2	289000 J	31.2	< 7	4 B J	1980	< 3	123000	281 J	<0.2	12.8 B	11500 J	<5	<5	591000	< 10	1310	5.1 B	20 J
	11/19/2007	409	< 10	184	294 J	< 5	< 2	270000 J	47.5	2.1 B	4.6 B	7090 J	< 3	185000 J	177 J	< 0.2	88.7	15600	< 5	< 5	791000	5.4 B	678	3.9 B	12.3 B
	11/6/2008	342	4 B	207	434 J	< 5	< 2	337000 J	33.5	< 7	5.7 B	6790	< 3	206000 J	741 J	< 0.2	45.2	20400	< 5	< 5	860000	< 10	1990	22.9	< 20
	11/20/2009	1030	< 10	185	657	< 5	< 2	314000	244	< 7	15.3 B	6990	2.6 B	204000	133	< 0.2	77.8	16600	< 5	< 5	897000	5.3 B	1290	36.5	35.5
	11/19/2010	< 200	4.1 J	102	985 J	< 5	< 2	261000 J	24.1	1.9 J	< 25	6300	< 3	167000	239 J	< 0.2	90.7	13100 J	< 5	< 5	736000	10 U	725	78.7	20.4 UJ
	12/12/2012	< 200	< 10	69	540	< 5	< 2	270000	39	2.1 J	< 25	4600	< 3	190000	230	< 0.2	32 J	11000	< 5	< 5	850000	4.8 J	640	33	13 J
	12/13/2016	41 J	18	340	5300	0.39 J	<2	390000	39	<7	<25	25000	<5	330000	200	<0.2	58	27000	<15	<5	1200000	<10	4200	250	24 J
MW-EPA-2	5/8/2001	38400	3.6 B	27.4	496	1.9 B	0.65 B	327000	1250	38.9	74.3	64800	27.6	114000	1610	<0.2	271	15900 L	5	<5	480000	10.4	NA	85.2	193
	11/14/2001	39300 J	5.4 B	31.7	292	1.8 B	5.2	254000	1750	51.2	109	74600	32.4	88100 J	1640	0.15 B	369	13300	<5	<5	336000	10.8	NA	91.7	280
	10/20/2002	1260 J	<10	3.1 B	113 B	<5	0.5 B	142000 J	80.1	3.3 B	4.7 B	1860	<3	45500	317	<0.2	121	2560 B J	<5	NA	231000	6.4 B	<100	2.7 B	<20
	11/11/2003	1490	<10	<10	105 B J	<5	1 B	154000 J	492	5.4 B	9.4 B	3320	<3	47700 J	288 J	<0.2	132	2770 B J	<5	<5	248000	6 B	11.9 B	4.9 B	20.6 J
	3/29/2004	2020 J E	<10	<10	129 B	<5	0.33 B	190000	443	6.4 B	13 B J	3610	<3	62000	350 J	<0.2	225	3090 B J	5.1	<5	316000	4.6 B J	9.5 B	4.1 B	14.3 B
	11/4/2004	425 J	<10	<10	190 B	<5	1 B J	274000	65.6	3.9 B J	5.7 B	868	<3	87100 J	202 J	<0.2	231	3920 B J	<5	<5	427000	5.3 B	<100	<7	<20
	11/11/2005	889	<10	<10	249	<5	<2	305000 J	243	3.0 B	7.1 B J	1880	<3	97600	241 J	<0.2	225	5330	<5	<5	591000	<10	<100	2.5 B	14.3 U
	11/9/2006	179 B	< 10	< 10	32.3 B	0.33 B	5.3	228000 J	10.7	1.3 B	13.2 B	1510	6.6	66000	77.2 J	<0.2	22.1 B	2090 B J	< 5	< 5	64000	< 10	89.1 B	< 7	84.9 J
	11/19/2007	7030	< 10	4 B	278 J	< 5	< 2	295000 J	1010	12.7	39.2	12700 J	4	95100 J	755 J	< 0.2	243	8490	< 5	< 5	600000	7.9 B	52.7 B	19.4	48.5
	11/17/2008	1340	< 10	< 10	164 B J	< 5	< 2	219000 J	126	6 B	34	3050	6.1	70800 J	335 J	< 0.2	184	3650 B J	< 5	< 5	423000	< 10	149	2.6 B	62.5
	11/23/2009	12700	< 10	8.3 B	253	0.64 B	< 2	262000	370	17.6	36.9	20700	12.8	83300	1100	< 0.2	242	8800	< 5	< 5	587000	< 10	168	28	87.5
	11/18/2010	3200	2.1 J	4.4 J	195 J	< 5	< 2	225000 J	89.7	4.5 J	10.1 J	4090	2.1 J	72500	399 J	< 0.2	222	5170 J	< 5	< 5	578000	12.4 U	22.9 J	7.4	30.7 UJ
	12/10/2012	6200	< 10	9 J	240	< 5	1.1 J	260000	1800	16	55	14000	7.7	82000	790	< 0.2	320	5300	< 5	< 5	640000	4.9 J	140	20	64
	12/14/2016	650	<10	<10	150 J	0.3 J	0.6 J	160000	220	3.2 J	9.9 J	1800	<5	47000	320	<0.2	130	3000 J	<15	<5	600000	<10	20 J	<10	23 J
MW-EPA-3	5/6/2001	1330	<10	<10	71.9 B	<5	1.5 B	188000	29.9	2.8 B	11.2 B	5540	<3	68900	357	<0.2	34.4 B	1770 B	<5	<5	26300	9.4 B	NA	2.4 B	71.3
	11/13/2001	16400	<10	14.1	120 B	1.1 B	1.2 B	470000 J	75.8	14.5	37.5	40500	13.7	175000 J	1440 J	<0.2	80.3	6910 J	<5	<5	48000 J	<10	NA	32.1	163 J
	10/17/2002	20800	<10	23	146 B	0.79 B	1.7 B	467000 J	117	20.7	41.5	51400	20.6	153000 J	1820 J	<0.2	113	8530 J	<5	NA	36300	<10	<100	45.3 J	148
	11/13/2003	4770	<10	6.7 B	86.6 B J	0.83 B	0.76 B	414000 J	69.3	7.1	7 B	16300 J	7.5	118000	1350 J	<0.2	72.2	3490 B J	<5	<5	38000	<10	<100	10.4	39.3 J
	3/30/2004	19200 J	<10	22.2	117 B	0.52 B	2.1	464000	143	21	50	55200	20.5	165000	1720 J	<0.2	159	6430 J	<5	<5	42800	4.9 B	<100	40.3	147
	11/4/2004	4240 J	<10	5.3 B	174 B	<5	2 J	305000	22.8	11.9 J	16.2 B	8830	2 B	108000 J	1120 J	<0.2	94.3	3310 B J	<5	<5	40300	7 B	<100	7.9	54.3
	11/11/2005	239	<10	<10	98.7 B	<5	<2	342000 J	<5	2.6 B	2.0 B J	6630	<3	124000	672 J	<0.2	50.7	2160 B	<5	<5	52900	5.0 B	<100	<7	44.9 U
	11/7/2006	872	< 10	< 10	144 B	< 5	0.68 B	377000 J	10.7	2.9 B	3.6 B J	7140	< 3	139000	794 J	<0.2	28.6 B	2360 B J	< 5	< 5	60600	< 10	< 100	< 7	26.7 J
	11/14/2007	2370	2 B	< 10	123 B	< 5	< 2	205000 J	8.6	3 B	< 25	4910	< 3	69500	468	< 0.2	24.4 B	2720 B J	< 5	< 5	32900	< 10	< 100	3.7 B	41.2
	11/11/2008	1030	< 10	< 10	99.5 B J	< 5	< 2	275000 J	27	4.6 B	5.7 B	6260	< 3	96400 J	578 J	< 0.2	144	2010 B	< 5	< 5	47400	< 10	< 100	2.6 B	< 20
	11/23/2009	513	< 10	< 10	131 B	< 5	< 2	197000	19.9	12.3	< 25	3080	< 3	64400	595	< 0.2	639	1700 B	< 5	< 5	38100	< 10	< 100	< 7	50.9
	11/23/2010	680	< 10	< 10	163 J	0.51 J	< 2	226000	70.2	16.2	< 25	4930 J	< 3	80600	693 J	< 0.2	825	2260 J	< 5	< 5	48500	< 10	< 100	0.66 J	41.3
	12/7/2012	5900	< 10	9 J	190 J	< 5	0.94 J	240000	150	14	16 J	13000	6.4	84000	880	< 0.2	190	3800 J	< 5	< 5	49000	< 10	6.9 J	12	120
	12/14/2016	1400	<10	<10	220	0.28 J	0.72 J	270000	220	18	10 J	4300	3.2 J	93000	910	<0.2	290	2500 J	<15	<5	84000	<10	5.8 J	8.8 J	93
MW-EPA-4	5/8/2001	<200	<10	<10	235	<5	0.31 B	269000	37.7	2.8 B	<25	950	<3	63600	352	<0.2	140	4830 B	<5	<5	704000	8.5 B	NA	<7	<20

Table B-3
Summary of Inorganic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
	11/13/2001	41.7 B	<10	<10	114 B	<5	<2	157000 J	130	11.4	<25	8220	<3	40600 J	284 J	0.16 B	910	2430 B J	<5	<5	104000 J	<10	NA	<7	<20
	10/18/2002	<200	<10	<10	87.9 B	<5	<2	120000 J	207	4.1 B	<25	1980	<3	27900 J	157 J	<0.2	256	3200 B J	<5	NA	79300	<10	<100	1.1 B J	<20
	11/16/2003	<200	<10	<10	165 B J	<5	1.1 B J	196000 J	37.2 J	6.6 B J	3.7 B J	3340	<3	48600 J	185 J	<0.2	424 J	5540 J	<5	<5	250000	7.7 B J	<100	<7	<20
	4/6/2004	<200	<10	<10	137 B J	<5	<2	182000	64.6	2.4 B	<25	1080	<3	42400 J	193	<0.2	198	3980 B J	<5	<5	178000	4.5 B	<100	<7	<20
	11/6/2004	120 B	<10	<10	169 B	<5	<2	201000	36.1	1.9 B	3.3 B	1470	<3	47300	153 J	<0.2	206	5150 J	<5	<5	249000	<10	<100	<7	<20
	11/9/2005	<200	<10	<10	209	0.34 B	<2	280000 J	41.5	2.6 B	<25	1280	<3	67700	353 J	<0.2	173 J	5620 J	4.3 B	<5	261000	<10	<100	<7	<20
	11/7/2006	< 200	< 10	< 10	257	< 5	< 2	252000 J	197	1.4 B	4.6 B J	684	< 3	64300	129 J	<0.2	102	5830 J	< 5	< 5	592000	< 10	6.5 B	< 7	< 20
	11/14/2007	< 200	3.7 B	< 10	176 B	< 5	< 2	160000 J	436	5.5 B	8.4 B	1320	< 3	38000	235	< 0.2	374	6380 J	< 5	< 5	570000	< 10	< 100	1.4 B	< 20
	11/6/2008	< 200	< 10	< 10	123 B J	< 5	< 2	139000 J	846	5.3 B	12.4 B	3110	< 3	31100 J	224 J	< 0.2	273	4470 B	< 5	< 5	301000	< 10	< 100	2.8 B	< 20
	11/19/2009	< 200	< 10	< 10	208	< 5	< 2	198000	221	1.8 B	5.2 B	712	< 3	49400	81.6	< 0.2	249	6810	< 5	< 5	834000	< 10	27.3 B	< 7	< 20
	11/17/2010	< 200	< 10	< 10	192 J	< 5	< 2	218000 J	658	8.8	10 J	3400	< 3	50200	284 J	< 0.2	662	6120 J	< 5	< 5	695000	13.4 U	44.9 J	2 J	20 UJ
	12/3/2012	< 200	< 10	< 10	260	< 5	< 2	350000	500	2.5 J	7 J	1300	< 3	69000	140	< 0.2	220	6200	6.4	< 5	910000	< 10	27 J	1.4 J	50 U
	12/8/2016	<200	<10	7.3 J	91 J	<5	<2	100000	7700	13	130	16000	<15	25000	250	<0.2	660	2600 J	<15	<5	240000	3.3 J	30 J	41	<50
Recovery Well	7/29/2001	NA	<10	39.6	328	<5	8.6	NA	264	11.1	4640	NA	405	NA	NA	<0.2	311	NA	<5	<5	NA	<10	1650	76	1100
RWV20	4/6/2004	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
UAW01-30	5/4/2001	82.1 B	<10	13	339	<5	<2	341000	7.7	2.2 B	<25	9970	<3	77200	1240	<0.2	109	13000	<5	<5	315000	<10	NA	<7	<20
	11/8/2001	81.8 B J	<10	5.1 B	164 B J	0.58 B	0.29 B	151000 J	15.2	14.8	<25	8940	<3	31800	569	0.093 B	802	13900 J	<5	<5	243000	7.1 B	NA	<7	<20
	10/17/2002	<200	<10	7.6 B	93.9 B	<5	<2	110000 J	32.8	4.7 B	<25	2830	<3	25000 J	902 J	<0.2	237	6750 J	<5	NA	68000	<10	23.5 B	<7	<20
	11/11/2003	<200	<10	5.9 B	109 B J	<5	<2	138000 J	32.1	<7	<25	1380	<3	32500 J	180 J	<0.2	31.1 B	8590 J	<5	<5	166000	<10	30.8 B	<7	<20
	3/24/2004	<200	<10	7.1 B	81.3 B J	0.8 B J	<2	109000 J	9.8	1.4 B	6 B J	1530	<3	25700 J	276 J	0.082 B J	36.6 B	7090 J	<5	<5	115000	<10	14.9 B	<7	<20
	11/3/2004	<200	<10	10.1	206	<5	<2	210000	20.3	2.7 B	3.2 B	6590	<3	48600	777	0.082 B	181	13300 J	<5	<5	493000	<10	22.4 B	<7	<20
	11/8/2005	<200	<10	11	224	<5	<2	193000 J	28.9	5.4 B	3.4 B	9800	<3	45100	843 J	<0.2	310	14300 J	<5	<5	576000	<10	17.7	<7	7.5 B
	11/1/2006	< 200	< 10	13.2	218	< 5	< 2	221000 J	9	1.6 B	< 25	7130	< 3	46000	531 J	<0.2	108	12900 J	< 5	< 5	495000	< 10	22.3 B	< 7	< 20
	11/8/2007	< 200	< 10	25	298 J	< 5	< 2	247000 J	97.3	< 7	< 25	12200	< 3	57700 J	631 J	< 0.2	124	11400 J	< 5	< 5	474000	< 10	< 100	< 7	< 20
	11/5/2008	< 200	< 10	< 10	121 B J	< 5	< 2	154000 J	25.5	< 7	< 25	3360 J	< 3	34300 J	1700	< 0.2	32.3 B	6660 J	< 5	< 5	130000	4.9 B	12.8 B	< 7	< 20
	11/12/2009	< 200	< 10	17.9	290	< 5	< 2	247000	115	< 7	< 25	6580	< 3	50100	397	< 0.2	31.7 B	19700	< 5	< 5	644000	< 10	11.5 B	< 7	20 U
	11/16/2010	< 200	< 10	14.4	265 J	< 5	< 2	264000 J	202	2.8 J	< 25	11300	< 3	66000	844 J	< 0.2	128	14100 J	< 5	< 5	678000	10 U	29.2 J	1.1 J	20 UJ
	11/29/2012	< 200	< 10	22	99 J	< 5	< 2	130000	1600	7.9	7.2 J	10000	< 3	29000	1600	< 0.2	330	5800	< 5	< 5	120000	< 10	11 J	9.4	< 50
	12/6/2016	<200	<10	4.6 J	110 J	0.22 J	<2	120000	220	<7	<25	2400	<5	30000	580	<0.2	47	2400	<15	<5	330000	<10	3.7 J	<10	<50
UAW01-80	5/4/2001	331	<10	3.9 B	309	<5	<2	117000	2.4 B	<7	<25	10600	<3	30800	563	<0.2	4.1 B	2140 B	<5	<5	51900	<10	NA	<7	<20
	11/12/2001	105 B J	<10	<10	308	<5	<2	112000	<5	<7	<25	9600	<3	29900	527	<0.2	<40	2630 B	<5	<5	50300	10.1 J	NA	<7	<20
	10/17/2002	98.7 B	<10	2.4 B	350	<5	<2	113000 J	3.5 B	<7	<25	10600	<3	29200 J	527 J	<0.2	3.4 B	2340 B J	<5	NA	51000	<10	<100	<7	<20
	11/11/2003	<200	<10	3.5 B	326 J	<5	<2	120000 J	2.7 B	<7	<25	10100	<3	30400 J	508 J	<0.2	3.7 B	2370 B J	<5	<5	55300	6.3 B	<100	<7	<20
	3/24/2004	<200	<10	5 B	346 J	0.77 B J	0.46 B	122000 J	<5	<7	5 B J	10300	<3	30700 J	527 J	0.046 B J	<40	2530 B J	<5	<5	58900	<10	<100	<7	<20
	11/2/2004	<200	<10	3.4 B	332	<5	0.32 B	113000	<5	<7	<25	10000	<3	28300	499	0.082 B	<40	2020 B J	<5	<5	55300	<10	<100	<7	<20
	11/8/2005	<200	<10	<10	325	<5	<2	107000 J	<5	<7	<25	9860	<3	28000	492 J	<0.2	<40	2130 B J	<5	<5	58700	<10	<100	<7	<20
	11/1/2006	< 200	< 10	< 10	337	< 5	< 2	114000 J	< 5	< 7	< 25	10400	< 3	29100	514 J	<0.2	<40	2240 B J	<5	<5	62500	< 10	< 100	< 7	< 20
	11/8/2007	< 200	< 10	< 10	301 J	< 5	< 2	94100 J	< 5	< 7	< 25	8500	< 3	23900 J	461 J	< 0.2	< 40	1830 B J	< 5	< 5	53400	< 10	< 100	< 7	< 20
	11/5/2008	< 200	< 10	< 10	266 J	< 5	< 2	95400 J	< 5	< 7	< 25	7230 J	< 3	24900 J	428	< 0.2	< 40	1890 B J	< 5	< 5	56200	< 10	< 100	< 7	< 20
	11/12/2009	< 200	< 10	< 10	272	< 5	< 2	94400	< 5	< 7	< 25	8060	< 3	24900	424	< 0.2	< 40	1790 B	< 5	< 5	53500	< 10	< 100	< 7	20 U
	11/16/2010	< 200	< 10	4.6 J	272 J	< 5	< 2	95600 J	< 5	< 7	< 25	8910	< 3	25900	422 J	< 0.2	< 40	1760 J	< 5	< 5	51900	10 U	< 100	< 7	20 UJ
	11/29/2012	< 200	< 10	4.5 J	260	< 5	< 2	97000	< 5	< 7	< 25	8700	< 3	26000	420	< 0.2	< 40	1600 J	< 5	< 5	49000	< 10	< 100	< 7	< 50
	12/6/2016	<200	<10	3.8 J	280	<5	0.31 J	100000	<5	<7	<25	8900	<5	28000	420	<0.2	<40	1400 J	<15	<5	44000	<10	<100	<10	<50

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Summary of Inorganic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
UAW02-20	5/7/2001	49.1 B	<10	3.9 B	400	<5	<2	331000	3.3 B	<7	<25	4200	<3	58700	892	<0.2	27.1 B	6670	<5	<5	496000	7.2 B	NA	37.3	<20
UAW02-20 Dup	5/7/2001	61.2 B	<10	6.1 B	395	<5	<2	316000	22.6	<7	<25	4480	<3	56200	869	<0.2	47.2	6600 L	<5	<5	475000	8.5 B	NA	39.2	<20
	11/10/2001	<200	2.9 B	<10	169 B	<5	<2	177000 J	<5	<7	<25	1940	<3	33200 J	686 J	<0.2	35.9 B	2990 B	<5	<5	140000 J	<10	NA	16.6	<20
	10/17/2002	<200	<10	3.2 B	311	<5	0.67 B	203000 J	8.1	2.2 B	<25	2600	<3	34000 J	975 J	<0.2	94	6600 J	<5	NA	235000	5.9 B	277	19.7 J	14.6 B
	11/12/2003	<200	<10	<10	124 B J	<5	<2	175000 J	2.7 B	<7	<25	2170	<3	32600 J	555 J	<0.2	23 B	2410 B J	<5	<5	180000	<10	95 B	5.1 B	<20
	3/26/2004	35 B J	<10	<10	271	<5	<2	255000 J	<5	<7	<25	3650	<3	45700 J	878 J	<0.2	22.5 B	4360 B J	<5	<5	337000	9.8 B J	85.2 B	3.3 B	<20
	11/3/2004	<200	<10	<10	77.4 B	<5	<2	109000	<5	<7	<25	1150	<3	20800	322	0.047 B	4.3 B	2190 B J	<5	<5	199000	<10	50.1 B	<7	<20
	11/9/2005	<200	<10	<10	77.5 B	0.32 B	<2	125000 J	2.0 B	<7	<25	1620	<3	25500	363 J	<0.2	7.4 B J	2050 B J	<5	<5	297000	<10	62.7 B	<7	18.9 B
	11/3/2006	47.3 B	< 10	< 10	119 B	< 5	0.64 B	156000 J	5.2	< 7	2.8 B J	4270	< 3	31500	407 J	<0.2	7.8 B	3110 B J	< 5	< 5	268000	< 10	46.8 B	< 7	10.6 B J
	11/9/2007	120 B	< 10	< 10	79.5 B J	< 5	< 2	80600 J	< 5	< 7	< 25	813	< 3	16000 J	140 J	< 0.2	< 40	1910 B J	< 5	< 5	349000	< 10	< 100	< 7	< 20
	11/7/2008	159 B	2.6 B	< 10	132 B J	< 5	< 2	149000 J	2.9 B	< 7	< 25	1520	< 3	27200 J	567 J	< 0.2	9.8 B	4000 B	< 5	< 5	379000	< 10	< 100	0.94 B	< 20
	11/12/2009	< 200	< 10	< 10	173 B	< 5	< 2	217000	3.1 B	< 7	< 25	3160	< 3	45800	423	< 0.2	13 B	3130 B	< 5	< 5	452000	< 10	94.1 B	< 7	20 U
	11/12/2010	< 200	2.4 J	< 10	545	0.5 J	1.1 J	330000	9	9.8	36.3	758	< 3	66900	514	< 0.2	69.2	13300 J	< 5	< 5	1150000	12.3	125	1.3 J	36.1
	12/5/2012	120 J	< 10	< 10	92 J	< 5	< 2	140000	48	1.7 J	< 25	3200	< 3	28000	630	< 0.2	200	1700 J	< 5	< 5	400000	< 10	87 J	0.88 J	50 U
	12/7/2016	<200	<10	<10	110 J	<5	<2	180000	11	<7	<25	3100	2.7 J	36000	570	<0.2	20 J	2200 J	<15	<5	240000	<10	85 J	<10	<50
UAW02-40	5/7/2001	213	<10	<10	130 B	<5	<2	98800	<5	<7	<25	4260	<3	36100	500	<0.2	18.9 B	2420 B	<5	<5	99900	<10	NA	<7	<20
	11/10/2001	<200	2.5 B	<10	156 B	<5	0.36 B	106000 J	<5	<7	<25	3110	<3	40000 J	652 J	<0.2	31.3 B	2900 B	<5	<5	149000 J	5.3 B	NA	<7	<20
	10/17/2002	<200	<10	<10	129 B	<5	<2	98400 J	<5	0.94 B	<25	4080	<3	37600 J	513 J	<0.2	13.3 B	2530 B J	<5	NA	78400	<10	<100	<7	<20
	11/12/2003	<200	<10	<10	117 B J	<5	<2	111000 J	1.4 B	<7	<25	5190	<3	41600 J	531 J	<0.2	6.1 B	2150 B J	<5	<5	46200	<10	<100	<7	<20
	3/26/2004	36.9 B J	<10	<10	135 B	<5	<2	121000 J	<5	<7	<25	6210	<3	44700 J	600 J	<0.2	3.5 B	2550 B J	<5	<5	45000	8.1 B J	<100	<7	<20
	11/3/2004	<200	<10	<10	125 B	<5	<2	123000	<5	<7	<25	4680	<3	44800	612	0.03 B	4.4 B	2060 B J	<5	<5	43000	<10	<100	<7	<20
	11/9/2005	<200	<10	<10	190 B	0.32 B	<2	121000 J	<5	<7	<25	4730	<3	44900	629 J	<0.2	11.5 B J	2740 B J	<5	<5	183000	<10	<100	<7	<20
	11/3/2006	< 200	< 10	< 10	136 B	< 5	< 2	106000 J	< 5	< 7	< 25	5500	< 3	38100	563 J	<0.2	2.4 B	2280 B J	< 5	< 5	85100	< 10	< 100	< 7	< 20
UAW02-40 Dup	11/3/2006	< 200	< 10	< 10	136 B	< 5	< 2	106000 J	< 5	< 7	< 25	5420	< 3	38100	563 J	<0.2	2.8 B	2270 B J E	< 5	< 5	85400	< 10	< 100	< 7	< 20
	11/9/2007	< 200	< 10	< 10	115 B J	< 5	< 2	102000 J	< 5	< 7	< 25	3760	< 3	34500 J	561 J	< 0.2	< 40	1770 B J	< 5	< 5	40600	< 10	< 100	< 7	< 20
	11/18/2008	< 200	< 10	< 10	116 B J	< 5	< 2	120000 J	< 5	< 7	< 25	5040	< 3	40400 J	610 J	< 0.2	< 40	1810 B J	< 5	< 5	39600	< 10	< 100	< 7	< 20
	11/12/2009	< 200	< 10	< 10	117 B	< 5	< 2	115000	< 5	< 7	< 25	4190	< 3	35800	588	< 0.2	< 40	1760 B	< 5	< 5	37600	< 10	< 100	< 7	20 U
UAW02-40 Dup	11/12/2009	< 200	< 10	< 10	118 B	< 5	< 2	115000	< 5	< 7	< 25	4340	< 3	35800	592	< 0.2	< 40	1750 B	< 5	< 5	37800	10 U	< 100	< 7	20 U
	11/12/2010	< 200	< 10	< 10	148 J	0.52 J	< 2	124000	< 5	< 7	< 25	10200	< 3	37800	635	< 0.2	< 40	1910 J	< 5	< 5	41100	10.5	< 100	< 7	12 J
	12/5/2012	270	< 10	< 10	150 J	< 5	< 2	140000	< 5	< 7	< 25	5900	< 3	37000	800	< 0.2	< 40	2200 J	< 5	< 5	56000	< 10	< 100	< 7	50 U
UAW02-40 Dup	12/5/2012	320	< 10	3.6 J	150 J	< 5	< 2	140000	< 5	< 7	< 25	5900	< 3	37000	810	< 0.2	< 40	2300 J	< 5	< 5	56000	< 10	< 100	1.1 J	50 U
	12/7/2016	240	<10	3.6 J	200	<5	<2	150000	22	<7	11 J	13000	4.6 J	33000	1100	<0.2	1.8 J	2300 J	<15	<5	87000	<10	2.6 J	<10	35 J
UAW02-40 Dup	12/7/2016	99 J	<10	<10	180 J	<5	<2	150000	18	<7	6.1 J	9000	3.4 J	33000	1100	<0.2	1.7 J	2200 J	<15	<5	88000	<10	<100	<10	16 J
UAW03-20	5/7/2001	39.6 B	<10	20.4	422	<5	<2	524000	2.8 B	3.8 B	<25	2490	<3	92100	2860	<0.2	39.4 B	8740	<5	<5	308000	10	NA	148	54.7
	11/11/2001	124 B J	<10	17.6	235	<5	<2	219000	3.5 B	10.7	<25	1720	<3	37500	1500	0.3	39.5 B	6010	<5	<5	165000	9.2 B J	NA	36.4	<20
	10/23/2002	<200	<10	21 J	250	<5	<2	169000	5.3	4.4 B	3.2 B	2390	<3	34000	1170	<0.2	59.6	4200 B J	<5	NA	187000	6 B	1180	54.7	<20
	11/12/2003	<200	<10	12.1	185 B J	<5	<2	227000 J	6.7	<7	<25	370	<3	40700 J	1040 J	<0.2	15.4 B	4230 B J	<5	<5	291000	<10	2400	29.4	<20
	3/28/2004	83.7 B J	<10	9.5 B	227	<5	<2	283000	2.4 B	<7	<25	422	<3	49600	1230 J	<0.2	8.4 B	5550 J	<5	<5	604000	5.5 B J	2350	25.7	<20
	11/4/2004	75.7 B J	<10	<10	70.1 B	<5	0.5 B J	108000	2 B	1.5 B J	<25	424	<3	19700 J	567 J	<0.2	5.2 B	2930 B J	<5	<5	143000	8 B	296	7.6	<20
UAW03-20 Dup	11/4/2004	82.3 B J	<10	3.1 B	68.9 B	<5	0.48 B J	107000	<5	1.4 B J	<25	410	<3	19400 J	557 J	<0.2	5.3 B	2870 B J	<5	<5	140000	5.6 B	291	7.1	<20
	11/9/2005	1310	<10	<10	104 B	0.40 B	<2	141000 J	2.8 B	<7	4.8 B J	4550	<3	26300	692 J	<0.2	6.0 B J	3590 B J	<5	<5	233000	<10	180	8.3	29.7
	11/6/2006	5520	< 10	6.9 B	101 B	0.35 B	1.3 B	121000 J	12.8	5.9 B	27.8 J	9460	22.8	26300	900 J	0.12 B	16.5 B	2920 B J	< 5	< 5	81200	< 10	67.9 B	13.6	244 J
	11/13/2007	5600	< 10	< 10	41.9 B	< 5	< 2	38300 J	11.5	3.7 B	15.6 B	7210	10.2	7480	172	< 0.2	12.4 B	3340 B J	4.4 B	< 5	112000	< 10	57.1 B	11.7	96.1
	11/4/2008	434	< 10	24.2	153 B	< 5	< 2	337000	3.5 B	2.8 B	< 25	17100	< 3	53400	1800	< 0.2	23.1 B	9660 J	< 5	< 5	775000	< 10	1710	13.4	94.8

Table B-3
Summary of Inorganic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
	11/16/2009	1490	< 10	10.3	137 B	< 5	< 2	271000	11.3	3.6 B	13 B	5620	7.1	49700	1260	< 0.2	68.2	9500	< 5	< 5	517000	7.2 B	2150	17.7	82.8
	11/18/2010	602	< 10	14.5	168 J	< 5	< 2	237000 J	14.1	5.2 J	6.8 J	7590	8.1	47900	1860 J	< 0.2	236	10700 J	< 5	< 5	745000	10 U	748	13	54.2 UJ
	11/30/2012	2600	2.1 J	9 J	150 J	< 5	< 2	240000	66	3.7 J	18 J	10000	8.9	52000	1200	< 0.2	100	7300	< 5	< 5	1000000	< 10	280	7 U	77
	12/7/2016	2100	<10	<10	49 J	<5	<2	110000	20	2.2 J	14 J	4400	5.5	18000	450	<0.2	57	4300 J	<15	<5	220000	<10	350	6.8 J	48 J
UAW04-20	5/7/2001	42.6 B	11.9	82.4	771	<5	<2	343000	6	17.3	<25	10500	<3	65600	3170	<0.2	28.9 B	7590	<5	<5	291000	11.7	NA	110	14.8 B MBE
	11/11/2001	78.5 B J	7.6 B	20.5	600	<5	1.5 B	255000	4 B	7.1	<25	5060	<3	43100	2000	<0.2	35.3 B	5790	<5	<5	183000	6.1 B J	NA	65.6	<20
	10/20/2002	82.9 B J	3.7 B	33.5	798	<5	<2	205000 J	6.5	3.2 B	<25	6650	<3	47400	1350	<0.2	38.2 B	6210 J	<5	NA	252000	<10	2270	91.5	<20
	11/12/2003	<200	<10	26.6	443 J	<5	<2	219000 J	2.8 B	<7	<25	6010	<3	64600 J	1020 J	<0.2	12.4 B	4380 B J	<5	<5	238000	<10	1280	20.4	<20
	3/28/2004	68.2 B J	27.6	30.8	233	<5	1.2 B	192000	<5	<7	3.4 B J	5230	<3	36700	5050 J	<0.2	6.2 B	2850 B J	<5	<5	137000	<10	591	7.9	17.9 B
	11/3/2004	70.1 B J	<10	10.7	129 B	<5	0.31 B J	114000	<5	1.2 B J	<25	1250	<3	21700 J	1720 J	<0.2	<40	1880 B J	<5	<5	124000	6 B	901	5.7 B	<20
	11/9/2005	<200	14.9	25.7	299	0.35 B	<2	155000 J	<5	<7	2.5 B J	6340	<3	39800	1380 J	<0.2	5.1 B J	3170 B J	<5	<5	221000	<10	365	5.0 B	15.9 B
	11/6/2006	< 200	19.8	22.4	217	< 5	< 2	164000 J	< 5	< 7	2.6 B J	2530	< 3	31900	4080 J	<0.2	3.7 B	1850 B J	< 5	< 5	143000	8.8 B	285	4.4 B	10.5 B J
UAW04-20 Dup	11/6/2006	< 200	21.4	26	215	< 5	< 2	161000 J	< 5	< 7	3 B J	2730	< 3	31600	3990 J	<0.2	3.3 B	1830 B J	< 5	< 5	141000	5.2 B	283	4.2 B	10.5 B J
	11/3/2008	< 200	6.4 B	15.6	157 B	< 5	< 2	209000	< 5	< 7	< 25	4300	< 3	49200	1430	< 0.2	7 B	3580 B J	< 5	< 5	232000	< 10	341	1.4 B	8.6 B
	11/16/2009	< 200	56.6	67.9	202	< 5	< 2	229000	< 5	< 7	< 25	8570	< 3	45900	1610	< 0.2	8.6 B	7560	< 5	< 5	311000	< 10	179	3.9 B	< 20
	11/16/2010	626	617	131	92 J	< 5	< 2	175000 J	2.5 J	5.5 J	11.4 J	4240	2.2 J	34900	599 J	< 0.2	17.7 J	5000 J	< 5	< 5	136000	10 U	310	2.6 J	27.2 UJ
	11/30/2012	< 200	22	13	210	< 5	< 2	260000	90	2 J	< 25	4300	< 3	48000	1400	< 0.2	27 J	6200	< 5	< 5	460000	< 10	710	7 U	50 U
	12/7/2016	120 J	16	7.8 J	42 J	<5	<2	69000	170	2.3 J	<25	2300	<5	13000	160	<0.2	270	2200 J	<15	<5	64000	<10	60 J	<10	<50
UAW05-20	5/6/2001	2550	<10	8.7 B	102 B	<5	<2	338000	8.1	2.2 B	7.8 B	3900	<3	60200	938	<0.2	15 B	7020	<5	<5	353000	5.4 B	NA	6.6 B	108 MBD
	10/10/2001	189 B	<10	21	67.9 B	<5	<2	292000	7.3	<7	<25	2750	<3	45300	901	<0.2	57.3	3900 B J	<5	<5	219000	8.1 B	425	3 B	<20
	11/12/2001	558 J	<10	18.7	68.6 B	<5	<2	265000	8.8	1.8 B	5.3 B	2930	<3	49300	802	<0.2	24.9 B	4480 B L	<5	<5	254000	11.8 J	NA	3.1 B	<20
	10/20/2002	110 B J	<10	21.8	72.2 B	<5	0.3 B	253000 J	5.1	<7	<25	986	<3	38300	732	<0.2	39.5 B	5230 J	<5	NA	244000	<10	569	5.8 B	<20
	11/10/2003	<200	<10	16.8	55.9 B J	<5	<2	299000 J	2 B	1.5 B	<25	1020	<3	40200 J	772 J	<0.2	92	3010 B J	<5	<5	106000	<10	223	5.8 B	<20
	3/28/2004	102 B J	<10	2.9 B	59.3 B	<5	<2	273000	2.6 B	<7	2.9 B J	948	<3	42500	820 J	<0.2	4.3 B	2640 B J	<5	<5	149000	<10	99.9 B	0.81 B	<20
UAW05-20 Dup	3/28/2004	121 B J	<10	2.7 B	63.7 B	<5	<2	295000	4.2 B	<7	3.3 B J	1090	<3	45700	873 J	<0.2	7.6 B	2870 B J	<5	<5	162000	5.2 B J	107	0.92 B	<20
	11/4/2004	103 B J	<10	3.7 B	63.1 B	<5	0.45 B J	253000	3.2 B	1.7 B J	<25	637	<3	38600 J	843 J	<0.2	26.1 B	3670 B J	<5	<5	249000	<10	257	2.2 B	<20
	11/14/2005	523	<10	45.4	123 B	<5	<2	360000 J	110	2.4 B	4.1 B	4110	<3	65000	929 J	<0.2	300	6410	<5	<5	471000	<10	455	10.9	7.3 U
	11/9/2006	6760	< 10	17.5	79.2 B	0.59 B	1.1 B	170000 J	421	13	26.1	10600	6.4	33500	636 J	0.091 B	662	5110 J	< 5	< 5	190000	< 10	204	17.8	48.5 J
	11/15/2007	< 200	< 10	6.5 B	152 B	< 5	< 2	326000	55.6	< 7	< 25	1610	< 3	59300	851	< 0.2	37.9 B	9390 J	< 5	< 5	495000	7.2 B	746	4 B	7.7 B
	11/5/2008	< 200	2.5 B	< 10	262 J	< 5	< 2	515000 J	192	1.7 B	< 25	2420 J	< 3	120000 J	1310	< 0.2	82.6	13300 J	< 5	< 5	877000	< 10	3790	9.4	< 20
	11/17/2009	< 200	8 B	< 10	92.3 B	< 5	< 2	268000	770	33.5	< 25	50700	< 3	51300	1620	< 0.2	3600	7010	< 5	< 5	465000	6.8 B	891	< 7	< 20
	11/18/2010	355	< 10	31.7	128 J	< 5	< 2	250000 J	1520	31.9	< 25	21300	< 3	76500	1270 J	< 0.2	2000	12400 J	< 5	< 5	708000	10 U	3920	26.6	20 UJ
	12/12/2012	100 J	< 10	37	300	< 5	< 2	650000	7700	49	< 25	31000	< 3	150000	3800	< 0.2	2400	20000	< 5	< 5	1000000	8.3 J	7800	140	9.9 J
UAW05-20 Dup	12/12/2012	< 200	< 10	37	310	< 5	< 2	660000	6900	45	< 25	29000	< 3	150000	3800	0.18 J	2200	20000	< 5	< 5	1000000	8.5 J	7900	140	9.4 J
	12/9/2016	130 J	<10	15	80 J	<5	<2	220000	4500	6.3 J	<25	14000	3.7 J	71000	430	<0.2	630	6400	<15	<5	580000	<10	2200	24	<50
UAW06-20	5/6/2001	754	<10	13.4	105 B	<5	<2	310000	3.9 B	2.6 B	4.5 B	3880	<3	48300	1580	<0.2	29.6 B	7400	<5	<5	218000	<10	NA	127	15.7 B MBE
	10/10/2001	391	<10	26.7	132 B	<5	<2	343000	10.8	1.5 B	<25	1330	<3	43800	2590	<0.2	25 B	6430 J	<5	<5	309000	5.6 B	NA	106	22.8
	11/13/2001	330	<10	34.3	154 B	<5	<2	407000 J	13.4	<7	<25	1020	<3	58000 J	3000 J	<0.2	24.5 B	6820 J	<5	<5	368000 J	<10	NA	119	21.9 J
	10/20/2002	126 B J	16.5	30.8	173 B	<5	<2	268000 J	6.2	1.3 B	2.7 B	2580	<3	40800	1410	<0.2	28.3 B	5610 J	<5	NA	407000	<10	11100	76.4	19 B
	11/12/2003	<200	3.3 B	17.8	139 B J	<5	<2	221000 J	3.2 B	<7	<25	1170	<3	35700 J	1040 J	<0.2	12.6 B	4920 B J	<5	<5	391000	<10	6040	35.8	<20
	3/29/2004	91.7 B J	<10	20.7	135 B	<5	<2	229000	3.3 B	<7	<25	647	<3	41300	1160 J	<0.2	7.4 B	3870 B J	<5	<5	460000	<10	3700	32.2	<20
	11/4/2004	84.9 B J	<10	20.4	132 B	<5	0.34 B J	305000	<5	1.5 B J	<25	2630	<3	45700 J	1480 J	<0.2	7 B	4900 B J	<5	<5	332000	12.2	2460	20.2	<20
	11/15/2005	<200	<10	21.7	113 B	0.45 U	<2	312000	<5	<7	4.2 B	3120	<3	44700	1550	<0.2	15.0 B	5210 J	<5	<5	341000	<10	2010	26.9	20
	11/9/2006	999	< 10	16.5	71.6 B	0.36 B	0.53 B	251000 J	5.7	2.3 B	20.3 B	4210	< 3	35200	1370 J	<0.2	11.8 B	4420 B J	< 5	< 5	220000	< 10	1440	13.3	22.8 J

Table B-3
Summary of Inorganic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
	11/15/2007	< 200	< 10	< 10	114 B	< 5	< 2	418000	< 5	< 7	< 25	252	< 3	54600	3660	< 0.2	< 40	10200 J	< 5	< 5	279000	< 10	431	9.7	< 20
	11/4/2008	< 200	< 10	5.8 B	190 B	< 5	< 2	341000	< 5	< 7	< 25	428	< 3	59600	1790	0.13 B	7.9 B	9300 J	< 5	< 5	727000	5.9 B	848	12	14 B
	11/17/2009	< 200	< 10	4.4 B	91.9 B	< 5	< 2	225000	< 5	< 7	< 25	168	< 3	39300	1100	< 0.2	6.8 B	6480	< 5	< 5	349000	< 10	1340	10.3	20 U
	11/18/2010	< 200	< 10	8.9 J	160 J	< 5	< 2	309000 J	2.7 J	< 7	9.4 J	414	< 3	51600	1520 J	< 0.2	10.2 J	7460 J	< 5	< 5	583000	< 10	1170	12.5	38.1 UJ
	12/12/2012	410	< 10	4 J	84 J	< 5	< 2	140000	16	< 7	15 J	900	2.7 J	24000	710	< 0.2	13 J	3700 J	< 5	< 5	390000	< 10	510	5.4 J	54
	12/9/2016	270	<10	3.6 J	76 J	<5	<2	180000	3 J	<7	<25	720	4.1 J	32000	950	<0.2	5.1 J	4300 J	<15	<5	370000	<10	400	4.7 J	<50
UAW07-20	5/8/2001	NA	<10	<10	90.3 B	<5	<2	466000	1.6 B	<7	<25	270	<3	58000	NA	<0.2	2.5 B	11500	<5	<5	413000	10.6	866	3.2 B	12.4 B
UAW07-20 Dup	5/8/2001	NA	<10	4.6 B	95.8 B	<5	0.32 B	496000	<5	<7	<25	303	<3	61600	NA	<0.2	2.3 B	12100	<5	<5	432000	8.3 B	1010	3.9 B	<20
	11/15/2001	NA	<10	<10	80.4 B	<5	<2	NA	<5	<7	87.7	NA	<3	NA	NA	<0.2	2.3 B	NA	<5	<5	NA	9.6 B J	706 L	3.1 B	<20
	10/20/2002	111 B J	<10	3 B	79.6 B	<5	0.39 B	374000 J	3.3 B	<7	<25	174	<3	48700	729	<0.2	<40	11800 J	<5	NA	374000	<10	778	3.8 B	<20
	11/12/2003	280	<10	4.9 B	83.9 B J	0.55 B	<2	391000 J	3.3 B	<7	<25	787 J	3.7	51400	885 J	<0.2	4.2 B	11600 J	<5	<5	406000	<10	591	2.5 B	31.3 J
UAW07-20 Dup	11/12/2003	106 B	<10	3.4 B	70.6 B J	<5	<2	350000 J	1.8 B	<7	<25	506 J	<3	45100	781 J	<0.2	2.4 B	10100 J	<5	<5	362000	<10	526	2.1 B	<20
	4/5/2004	238 J	<10	2.6 B	40.3 B J	<5	<2	263000	3.2 B	<7	<25	1050	<3	36600 J	1410	<0.2	2.5 B	5750 J	<5	<5	228000	6.8 B	180	2.2 B	<20
	11/4/2004	50.7 B	<10	2.9 B	75.4 B	<5	<2	408000	2.1 B	<7	<25	55.5 B	<3	48700 J	852 J	<0.2	<40	11100	<5	<5	468000	4.8 B	574	2.7 B	<20
	11/15/2005	124 B	<10	<10	81.2 B	0.65 U	0.87 B	435000	16.1	<7	<25	454	<3	544000	1000	<0.2	3.6 B	11700 J	<5	<5	514000	<10	819	3.1 B	<20
	11/6/2006	560	< 10	< 10	32.7 B	< 5	4.1	197000 J	50.3	< 7	19 B J	1820	< 3	30100	813 J	<0.2	9.8 B	5190 J	< 5	< 5	191000	< 10	237	2.7 B	25.6 J
	11/15/2007	< 200	< 10	< 10	85.8 B	< 5	< 2	408000	< 5	< 7	< 25	< 100	< 3	51900	768	< 0.2	< 40	11200 J	< 5	< 5	529000	5.5 B	746	2.2 B	< 20
	11/4/2008	< 200	< 10	4.6 B	103 B	< 5	< 2	469000	7.3	< 7	< 25	243	< 3	60400	1510	< 0.2	< 40	13600 J	< 5	< 5	778000	4.9 B	733	3.2 B	20.6
	11/16/2009	< 200	< 10	< 10	82 B	< 5	< 2	375000	12.6	< 7	< 25	326	< 3	61800	1130	< 0.2	4 B	11000	< 5	< 5	559000	< 10	551	1.7 B	20 U
	11/19/2010	< 200	1.8 J	3.9 J	114 J	< 5	< 2	513000 J	3.8 J	< 7	< 25	144	< 3	64500	1290 J	< 0.2	< 40	15800 J	< 5	< 5	898000	10 U	868	2.9 J	20 UJ
	11/27/2012	< 200	< 10	5.8 J	67 J	< 5	< 2	400000	2.4 J	< 7	< 25	< 100	< 3	50000	1300	< 0.2	3.2 J	10000	< 5	< 5	590000	< 10	740	1.4 J	< 50
	12/9/2016	57 J	<10	<10	40 J	<5	<2	270000	3.1 J	<7	<25	100	3.8 J	34000	1100	<0.2	2.9 J	6300	<15	<5	310000	<10	300	<10	<50
UAW08-20	5/6/2001	NA	3.8 B	36.2	87.3 B	<5	0.44 B	810000	15	8.7	13.8 B	4680	<3	179000	NA	<0.2	30.5 B	17700	<5	<5	523000	9.8 B	3420	11.2	45.1 MBD
	11/13/2001	NA	<10	113	144 B	0.96 B	0.61 B	969000 J	67.6	15	41.9	22000	15.8	141000 J	NA	<0.2	53.4	21300 J	<5	<5	401000 J	<10	6090	27.1	132 J
	10/20/2002	172 B J	6.8 B	88.4	82 B	<5	<2	988000 J	28.3	2 B	<25	2670	<3	142000	596	<0.2	11.5 B	17400 J	<5	NA	407000	7.1 B	6110	13	21.8
	11/10/2003	31000	7.8 B	200	262 J	1.3 B	21.7	1040000 J	173	41.7	333	95500	79.2	289000 J	2310 J	<0.2	118	20900 J	<5	<5	539000	5.9 B	4500	74.7	352 J
	3/29/2004	193 B J	4.9 B	68.7	73 B	<5	<2	955000	24.3	1.6 B	3.7 B J	1020	<3	141000	550 J	<0.2	8.5 B	18100 J	<5	<5	691000	<10	6410	10	20.5
	11/4/2004	105 B J	<10	75.2	84.9 B	<5	2.7 J	1020000	27.7	2.9 B J	<25	1160	<3	134000 J	632 J	<0.2	7.9 B	17700 J	<5	<5	493000	8.4 B	5740	12	14.3 B
	11/15/2005	84.5 B	5.1 B	79.7	91.4 B	0.45 U	<2	952000	24.9	1.8 B	<25	2240	<3	135000	679	<0.2	10.8 B	18600 J	3.8 B	<5	550000	<10	6070	11.7	19.5 B
	11/9/2006	3560	< 10	74.3	93.7 B	0.58 B	4.4	834000 J	37.8	5.6 B	41.9	11200	4.2	143000	613 J	<0.2	17.9 B	18200 J	< 5	< 5	529000	< 10	4950	19.5	49.4 J
	11/7/2007	< 200	< 10	44.2	78 B J	< 5	< 2	883000 J	22.9	< 7	5 B	313	< 3	147000 J	222 J	< 0.2	4.7 B	17200 J	< 5	< 5	562000	< 10	5940 J	< 7	14.9 B J
	11/4/2008	< 200	4.8 B	44.3	86.6 B	< 5	< 2	1020000	28	< 7	< 25	131	< 3	154000	325	< 0.2	4.3 B	18200 J	< 5	< 5	787000	< 10	7610	6.3 B	17.4 B
UAW08-20 Dup	11/4/2008	< 200	4.5 B	43.7	89 B	< 5	< 2	1030000	27.2	< 7	6.5 B	130	< 3	154000	322	< 0.2	< 40	18300 J	< 5	< 5	819000	< 10	7340	6.9 B	17.8 B
	11/16/2009	< 200	4.1 B	32.1	93.6 B	< 5	< 2	922000	23.2	< 7	< 25	< 100	< 3	140000	332	< 0.2	4 B	18300	< 5	< 5	907000	5.1 B	6890	5.1 B	20 U
	11/19/2010	< 200	4.2 J	41.1	95.2 J	< 5	< 2	957000 J	23.3	< 7	< 25	< 100	< 3	145000	427 J	< 0.2	3.7 J	21800 J	< 5	< 5	887000	10 U	5890	5.5 J	20 UJ
	11/27/2012	< 200	< 10	42	95 J	< 5	< 2	1100000	27	2.7 J	< 250	< 100	< 3	140000	420	< 0.2	9.9 J	16000	< 5	< 5	2200000	5.3 J	13000	3.8 J	10 J
	12/9/2016	<200	<10	30	75 J	<5	0.88 J	1000000	23	1.9 J	<130	56 J	10	120000	400	<0.2	12 J	14000	<15	<5	780000	<10	4500	<10	<50
UAW09-20	5/5/2001	90.6 B	<10	<10	80.3 B	<5	<2	108000	<5	<7	<25	<100	<3	31000	12.4 B	<0.2	<40	1720 B	<5	<5	63200	<10	NA	<7	<20
	11/9/2001	<200	<10	<10	78.7 B	<5	<2	109000 J	10.4	1.4 B	<25	288	<3	25000 J	17.1 J	<0.2	81.9	2420 B	<5	<5	92500 J	<10	NA	<7	<20
	10/16/2002	<200	<10	<10	84.7 B	<5	0.85 B	107000 J	24.8	1.2 B J	<25	130	<3	24900 J	3.6 B J	<0.2	10.8 B	2880 B J	<5	NA	59500	8.8 B	<100	0.82 B	<20
	11/11/2003	<200	<10	<10	95.8 B J	<5	<2	143000 J	21.2	<7	<25	76.4 B	<3	33500 J	1.1 B J	<0.2	10.4 B	2130 B J	<5	<5	83800	<10	<100	<7	16.8 B J
	4/6/2004	<200	<10	<10	65.5 B J	<5	<2	110000	22.5	<7	<25	62.5 B	<3	26300 J	1.4 B	<0.2	6.6 B	1760 B J	<5	<5	65000	5.7 B	18.5 B	<7	<20
	11/6/2004	<200	<10	6.2 B	363	<5	<2	103000	4 B	<7	6.7 B	<100	<3	34200	121 J	<0.2	6.4 B	1370 B J	<5	<5	17900	<10	<100	<7	<20
	11/9/2005	<200	<10	<10	110 B	0.42 B	<2	137000 J	28.2	<7	<25	118	<3	38200	3 B J	<0.2	15.3 B J	2000 B J	3.7 B	<5	117000	7.3 B J	<100	<7	<20

Table B-3
Summary of Inorganic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
	11/3/2006	< 200	< 10	< 10	64.6 B	< 5	< 2	99000 J	53.5	< 7	1.8 B J	374	< 3	26300	23.8 J	<0.2	78.9	1500 B J	< 5	< 5	63900	< 10	5.4 B	< 7	< 20
	11/15/2007	< 200	< 10	< 10	81.9 B	< 5	< 2	133000	40.1	6.5 B	< 25	1580	< 3	34700	112	< 0.2	416	1410 B J	< 5	< 5	62900	6 B	3.4 B	< 7	< 20
	11/12/2008	< 200	2.6 B	< 10	76.2 B	< 5	< 2	126000 J	143	2.1 B	< 25	1430	< 3	35100 J	23.9 J	< 0.2	133	1390 B	< 5	< 5	35600	< 10	< 100	0.94 B	< 20
	11/18/2009	< 200	< 10	< 10	45.7 B	< 5	< 2	77900	27.1	< 7	< 25	202	< 3	20700	6.7 B	< 0.2	48.5	1450 B	< 5	< 5	50900	< 10	< 100	< 7	< 20
	11/22/2010	< 200	< 10	< 10	77.1 J	< 5	< 2	107000	158	< 7	< 25	1090 J	< 3	30700	14.8 J	< 0.2	115	1520 J	< 5	< 5	81400	10 U	< 100	0.7 J	6.1 J
	12/13/2012	< 200	< 10	< 10	70 J	< 5	< 2	130000	49	5.4 J	< 25	940	< 3	32000	54	< 0.2	360	1500 J	< 5	< 5	24000	< 10	< 100	< 7	< 50
	12/5/2016	<200	<10	<10	57 J	0.21 J	0.44 J	110000	56	<7	<25	170	<5	30000	<15	<0.2	15 J	900 J	<15	<5	40000	<10	<100	<10	<50
UAW09-60	5/5/2001	142 B	<10	<10	249	<5	<2	91900	<5	<7	13.7 B	132	<3	31500	348	<0.2	5.5 B	1400 B	<5	<5	17600	<10	NA	<7	<20
	11/9/2001	30.4 B	<10	<10	268	<5	<2	88100 J	<5	<7	<25	<100	<3	31500 J	226 J	<0.2	<40	1740 B	<5	<5	22800 J	6 B	NA	<7	<20
	10/16/2002	<200	<10	5.6 B	330	<5	<2	82200 J	<5	1.4 B J	<25	140	<3	28700 J	298 J	<0.2	22.7 B	2020 B J E	<5	NA	23900	<10	<100	<7	<20
	11/11/2003	<200	<10	5 B	364 J	<5	<2	104000 J	2 B	<7	<25	71.6 B	<3	34900 J	236 J	<0.2	19.5 B	1970 B J	<5	<5	20600	<10	<100	<7	<20
	4/6/2004	<200	<10	9.7 B	411 J	<5	<2	112000	<5	<7	<25	149	<3	36700 J	311	<0.2	9.4 B	1540 B J	<5	<5	16800	5 B	<100	<7	<20
	11/6/2004	<200	<10	<10	73.4 B	<5	<2	110000	8.5	<7	3.8 B	<100	<3	30500	<15	<0.2	6.1 B	1770 B J	<5	<5	56700	<10	<100	<7	39.1
	11/9/2005	<200	<10	<10	361	0.35 B	<2	104000 J	5.2	<7	<25	<100	<3	35900	12.3 B J	<0.2	6 B J	1370 B J	<5	<5	16100	<10	<100	<7	<20
	11/3/2006	< 200	< 10	6 B	370	< 5	< 2	111000 J	2.3 B	< 7	3.3 B J	< 100	< 3	37300	121 J	<0.2	2.2 B	1350 B J	< 5	< 5	15900	5.3 B	< 100	< 7	< 20
	11/15/2007	< 200	< 10	7.4 B	351	< 5	< 2	107000	< 5	< 7	< 25	100	< 3	36200	143	< 0.2	< 40	1560 B J	< 5	< 5	14800	6.6 B	< 100	< 7	< 20
UAW09-60 Dup	11/15/2007	< 200	< 10	7.5 B	354	< 5	< 2	108000	2.8 B	< 7	< 25	119	< 3	36600	151	< 0.2	< 40	1550 B J	< 5	< 5	15100	7.7 B	< 100	< 7	< 20
	11/12/2008	< 200	2.6 B	9.1 B	329	< 5	< 2	107000 J	< 5	< 7	< 25	< 100	< 3	37000 J	173 J	< 0.2	< 40	1390 B	< 5	< 5	14100	< 10	< 100	< 7	< 20
	11/18/2009	< 200	< 10	5.4 B	290	< 5	< 2	105000	< 5	< 7	< 25	< 100	< 3	36500	154	< 0.2	< 40	1280 B	< 5	< 5	14200	5 B	< 100	< 7	< 20
	11/22/2010	< 200	< 10	8.4 J	303 J	< 5	< 2	111000	< 5	< 7	< 25	< 100	< 3	38900	227 J	< 0.2	3.3 J	1490 J	< 5	< 5	15200	< 10	< 100	< 7	11.3 J
	12/13/2012	< 200	< 10	9.9 J	260	< 5	< 2	110000	2.6 J	< 7	< 25	< 100	< 3	37000	180	< 0.2	< 40	1400 J	< 5	< 5	13000	< 10	< 100	< 7	< 50
	12/2/2016	<200	<10	8 J	190 J	<5	<2	100000	1.5 J	<7	<25	<100	2.5 J	36000	93	<0.2	1.8 J	1100 J	<15	<5	14000	<10	<100	<10	<50
UAW10-50	10/12/2001	32800	<10	19.2	281	1.9 B	0.97 B	271000	46.7	23.9	61.6	49200	21.3	73100	1210	<0.2	61.8	13400 J	<5	2.5 B	67800	7.9 B J	NA	65.2	164
	11/13/2001	318	<10	<10	107 B	<5	<2	185000 J	<5	2.2 B	12.3 B	346	<3	55000 J	469 J	0.095 B	15.3 B	4260 B J	<5	<5	60400 J	<10	NA	<7	25.3 J
	10/19/2002	3070 J	<10	<10	68.1 B	<5	<2	176000 J	12.1	4.4 B	15.3 B	4490	2.2 B	58500	559	<0.2	14.4 B	3740 B J	<5	NA	47000	5.5 B	<100	5.8 B	28.1
	11/10/2003	2350	<10	<10	60.3 B J	<5	<2	196000 J	4.3 B	3.2 B	4.9 B	2810	<3	65200 J	490 J	<0.2	9.7 B	3350 B J	<5	<5	45700	<10	7.9 B	4.4 B	19.6 B J
	3/30/2004	2610 J	<10	3 B	55.9 B	<5	<2	209000	5	3.6 B	10.1 B	3600	<3	60400	356 J	<0.2	12.8 B	3160 B J	<5	<5	55100	6 B	<100	4.4 B	20.6
	11/5/2004	2020	<10	<10	51.8 B	<5	<2	193000	4.6 B	3.1 B	10.3 B	2760	<3	57200	403 J	<0.2	10.9 B	2900 B J	<5	1.1 B	50000	<10	<100	3.7 B	18.3 B
	11/11/2005	2930	<10	<10	55.0 B	0.30 B	<2	184000 J	4.3 B	3.2 B	11.2 B	4060	<3	58300	404 J	<0.2	9.8 B	3460 B	<5	<5	47600	<10	<100	6.1 B	31.3 J
	11/9/2006	5830	< 10	< 10	83.2 B	0.63 B	< 2	181000 J	9.4	5.8 B	13.1 B	8200	4.2	48800	354 J	<0.2	23.2 B	5210 J	< 5	9.9	46400	< 10	20.2 B	11.6	40.2 J
	11/12/2007	112 J	< 10	< 10	385	< 5	< 2	105000	< 5	< 7	< 25	574 J	< 3	31200	373 J	< 0.2	3.5 B	13400 J	< 5	< 5	73200 J	< 10	< 100	< 7	22.5
UAW10-50 Dup	11/12/2007	1270 J	4.5 B	< 10	49.6 B	< 5	< 2	139000	2.8 B	< 7	< 25	1190 J	< 3	36400	57.3 J	< 0.2	5.2 B	4770 J	< 5	< 5	30800 J	< 10	< 100	2.1 B	12.3 B
	11/12/2008	318	11.8	< 10	70.1 B	< 5	< 2	184000 J	< 5	< 7	< 25	550	< 3	55400 J	388 J	< 0.2	6.1 B	2880 B	< 5	< 5	46800	< 10	< 100	1.3 B	17.6 B
UAW10-50 Dup	11/12/2008	435	1.9 B	< 10	67.2 B	< 5	< 2	180000 J	< 5	< 7	< 25	725	< 3	54600 J	392 J	< 0.2	6.1 B	2800 B	< 5	< 5	43300	< 10	< 100	0.93 B	21.9
	11/20/2009	113 B	< 10	< 10	42.6 B	< 5	< 2	173000	< 5	< 7	< 25	112	< 3	57600	389	< 0.2	4.8 B	2110 B	< 5	< 5	35700	< 10	< 100	< 7	20 U
UAW10-50 Dup	11/20/2009	97.3 B	< 10	< 10	42.4 B	< 5	< 2	173000	< 5	< 7	< 25	140	< 3	57400	390	< 0.2	5.1 B	2070 B	< 5	< 5	35700	< 10	< 100	< 7	20 U
	11/18/2010	147 J	< 10	< 10	41.2 J	< 5	< 2	170000 J	< 5	1.9 J	< 25	189	< 3	56400	384 J	< 0.2	5.7 J	2210 J	< 5	< 5	34300	10 U	< 100	< 7	20 UJ
	12/10/2012	490	< 10	< 10	39 J	< 5	< 2	150000	2.7 J	< 7	< 25	610	< 3	48000	360	< 0.2	6.4 J	2200 J	< 5	< 5	30000	< 10	< 100	< 7	23 J
	12/14/2016	200	<10	<10	41 J	<5	<2	160000	0.67 J	<7	4.1 J	240	2.4 J	50000	190	<0.2	3.7 J	1800 J	<15	<5	35000	<10	<100	<10	<50
UAW10-80	10/12/2001	1670	<10	5.1 B	131 B	<5	<2	181000	34.8	6.3 B	10.1 B	4990	<3	57700	3360	<0.2	75.3	5680 J	<5	<5	40800	7.5 B J	NA	2.9 B	30.3
	11/13/2001	503	<10	6.1 B	118 B	<5	0.58 B	192000 J	<5	3.5 B	5.8 B	6130	<3	59700 J	3560 J	0.091 B	9.7 B	7990 J	<5	<5	41000 J	<10	NA	<7	38 J
	10/19/2002	4030 J	<10	13.3	183 B	<5	0.36 B	117000 J	25.8	5.5 B	6.5 B	13200	4.8	37100	972	<0.2	36 B	3320 B J	<5	NA	12700	6.3 B	<100	8.1	29.2
	11/13/2003	11000	<10	19.5	279 J	1.1 B	<2	142000 J	171	12	16.5 B	24100 J	9.5	43100	1040 J	<0.2	129	4990 B J	<5	<5	14800	<10	<100	22	55.9 J
	3/30/2004	988 J	<10	11.5	193 B	<5	<2	132000	8.1	3.3 B	5.8 B	5710	<3	40700	691 J	<0.2	16.4 B	2140 B J	<5	<5	14300	<10	<100	1.4 B	<20

Table B-3
Summary of Inorganic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
	11/5/2004	4210	<10	13.6	228	<5	<2	145000	16.2	6.1 B	10.4 B	12500	5.4	43800 J	789 J	<0.2	19.2 B	2900 B	<5	<5	13800	9.2 B	<100	9.1	31.6
	11/16/2005	300	<10	7.2 B	280	<5	<2	138000	1.6B	2.1 B	<25	1640	<3	45200	440	<0.2	8.3 B	1980 B J	<5	<5	14800	<10	15.5 B	<7	<20
	11/9/2006	453	< 10	11.4	262	0.35 B	< 2	129000 J	< 5	1.2 B	< 25	8380	< 3	40800	386 J	<0.2	2.6 B	1800 B J	< 5	< 5	12800	< 10	10.2 B	< 7	6.9 B J
	11/12/2007	206	2.7 B	17.3 U	267	< 5	< 2	132000 J	2.8 B	< 7	< 25	8960	< 3	41900	350	< 0.2	< 40	1590 B J	< 5	< 5	13500	< 10	< 100	< 7	< 20
	11/12/2008	< 200	3.4 B	12.2	252	< 5	< 2	119000 J	< 5	< 7	< 25	7470	< 3	38400 J	277 J	< 0.2	< 40	1420 B	< 5	< 5	12000	< 10	< 100	< 7	7.4 B
	11/20/2009	< 200	< 10	9.1 B	229	< 5	< 2	105000	< 5	< 7	< 25	6810	< 3	34500	235	< 0.2	< 40	1290 B	< 5	< 5	11100	< 10	< 100	< 7	20 U
	11/18/2010	< 200	< 10	13.8	257 J	< 5	< 2	123000 J	< 5	< 7	< 25	7440	< 3	40300	254 J	< 0.2	< 40	1430 J	< 5	< 5	13000	10 U	< 100	< 7	20 UJ
	12/10/2012	< 200	< 10	8.5 J	37 J	< 5	< 2	21000	< 5	< 7	5.6 J	190	< 3	2900 J	42	0.2	< 40	820 J	< 5	< 5	1200 J	< 10	< 100	< 7	15 J
	12/15/2016	46 J	<10	15	48 J	<5	<2	22000	<5	<7	<25	77 J	<5	1800 J	15	<0.2	<40	900 J	<15	<5	1200 J	<10	<100	<10	<50
UAW11-10	5/8/2001	<200	1060	176	295	<5	<2	224000	249	9.6	<25	50000	4.4	41100	8440	0.21	240	8730	<5	<5	2230000	<10	NA	113	310
	11/10/2001	47.3 B	62.6	62.9	41.3 B	<5	<2	110000 J	11.3	1.5 B	<25	3900	<3	45500 J	470 J	0.13 B	39.3 B	7700	<5	<5	440000 J	7 B	NA	15.6	22.4 J
	10/18/2002	<200	8 B	65.2	29 B	<5	<2	181000 J	2.7 B	1.1 B	<25	404	<3	36600 J	2630 J	<0.2	12.2 B	5310 J	<5	NA	201000	<10	4060	12.6 J	<20
	11/16/2003	68.1 B J	4.7 B	32.6	23.6 B J	<5	1.1 B J	148000 J	6.2 J	1.8 B J	2 B J	270	<3	29100 J	2800 J	<0.2	7.9 B J	5510 J	<5	<5	293000	8.6 B J	1450	5.9 B	<20
	4/6/2004	39.6 B J	<10	86.1	26.8 B J	<5	1 B	183000	<5	1.1 B	2.5 B	554	<3	36900 J	4230	<0.2	8.9 B	6450 J	<5	<5	484000	5.9 B	1950	16	<20
	11/7/2004	78.7 B J	<10	80.3	10.7 B	<5	<2	61000	<5	1.2 B	<25	183	<3	13500	1190	<0.2	<40	2690 B J	<5	<5	198000	5.3 B	1660	4.1 B	<20
	11/10/2005	<200	<10	29.2	38.6 B	0.37 B	<2	164000 J	<5	<7	<25	146	<3	32800	2700 J	<0.2	4.2 B J	29800 J	<5	<5	286000	<10	3560	4.7 B	13.4 B
	11/2/2006	< 200	13	65.9	175 B	< 5	0.46 B	226000 J	3.6 B	< 7	2.3 B J	977	< 3	81900	2180 J	<0.2	4.9 B	9230 J	< 5	< 5	514000	5.3 B	3050	22.3	25.4 J
	11/16/2007	< 200	< 10	9.3 B	50.7 B	< 5	< 2	243000	< 5	< 7	< 25	741	< 3	38800	4540	< 0.2	17.5 B	6560 J	< 5	< 5	628000	6.6 B	702	5.8 B	6.6 B
	11/10/2008	< 200	< 10	9 B	83.5 B J	< 5	< 2	276000 J	< 5	< 7	< 25	1260	< 3	40500 J	3030 J	< 0.2	12.6 B	6360	< 5	< 5	579000	< 10	< 100	4.4 B	< 20
	11/18/2009	< 200	< 10	14.9	105 B	< 5	< 2	163000	< 5	< 7	< 25	1320	< 3	32300	3790	< 0.2	7 B	5390	< 5	< 5	583000	< 10	752	1.5 B	< 20
	11/29/2010	< 200	< 10	10.3	265 J	< 5	< 2	379000 J	2.3 J	< 7	5.6 J	3460	< 3	69500	8700 J	< 0.2	15.7 J	6800 J	< 5	< 5	992000	< 10	838	1.2 J	20 U
	12/4/2012	< 200	< 10	5 J	83 J	< 5	< 2	85000	< 5	< 7	< 25	1500	< 3	14000	1300	< 0.2	4.3 J	4800 J	< 5	< 5	460000	< 10	510	0.84 J	< 50
	12/8/2016	81 J	<10	13	140 J	<5	<2	140000	2.7 J	0.84 J	<25	4300	2.2 J	28000	2400	<0.2	9.1 J	4200 J	<15	<5	460000	<10	520	<10	<50
UAW11-40	5/8/2001	355	2.3 B	<10	31.4 B	<5	0.61 B	361000	6.7	12.7	13.7 B	930	<3	81000	1130	<0.2	49.4	5680	<5	<5	239000	8.2 B	NA	0.91 B	<20
	11/12/2001	62 B J	<10	<10	24.4 B	<5	0.51 B	347000	13	13.2	11.6 B	<100	<3	79100	1150	<0.2	66.5	5770	<5	<5	253000	7.8 B J	NA	<7	<20
	10/18/2002	<200	<10	<10	26.2 B	<5	0.34 B	318000 J	24	11.6	6.2 B	245	<3	72800 J	1040 J	<0.2	73.2	6200 J	<5	NA	258000	9.5 B	70.7 B	<7	<20
	11/16/2003	<200	<10	<10	24.5 B J	<5	1.3 B J	341000 J	54.6 J	10.4 J	9.4 B J	650	<3	73000 J	904 J	<0.2	86 J	6410 J	<5	<5	273000	10.9 J	48.7 B	<7	<20
	4/6/2004	65.4 B J	<10	<10	26.5 B J	<5	0.31 B	353000	8.5	9.3	6 B	100	<3	73300 J	966	<0.2	53.1	6040 J	<5	<5	285000	7.3 B	62.2 B	<7	<20
UAW11-40 Dup	4/6/2004	48.1 B J	<10	<10	25.9 B J	<5	0.41 B	346000	7.7	8.6	4.9 B	92.8 B	<3	71200 J	903	<0.2	49.3	5920 J	<5	<5	278000	7.3 B	51.7 B	<7	<20
	11/7/2004	91.1 B J	<10	<10	28.8 B	<5	0.62 B	340000	2.3 B	11.9	8 B	56.7 B	<3	78600	1050	<0.2	55.7	6820 J	<5	<5	317000	6.7 B	47.2 B	<7	<20
	11/10/2005	<200	<10	<10	27.7 B	0.4 B	0.49 B	310000 J	39.2	9.8	9.5 B J	849	<3	72900	1010 J	<0.2	79.7 J	5920 J	<5	<5	297000	<10	73.1 B	<7	7.0 B
	11/2/2006	< 200	< 10	< 10	27.6 B	< 5	0.56 B	296000 J	124	10.1	13 B J	1920	< 3	67700	1520 J	<0.2	87	6070 J	< 5	< 5	269000	< 10	58.9 B	< 7	22.1 J
	11/16/2007	267	< 10	< 10	56.3 B	< 5	4.4	317000	535	11.1	15 B	6400	3.3	81200	1570	< 0.2	383	5300 J	< 5	< 5	442000	< 10	84 B	2.4 B	41.2
	11/10/2008	< 200	< 10	< 10	26.9 B J	< 5	0.76 B	313000 J	68.5	4.1 B	7.9 B	1280	< 3	72600 J	1110 J	< 0.2	66.5	5520	< 5	< 5	291000	< 10	29.5 B	0.73 B	< 20
	11/18/2009	< 200	< 10	< 10	23.4 B	< 5	< 2	262000	35.2	4.1 B	< 25	708	< 3	60800	883	< 0.2	35.5 B	5440	< 5	< 5	255000	< 10	34 B	< 7	20 U
UAW11-40 Dup	11/29/2010	102 J	< 10	< 10	32.4 J	< 5	< 2	255000 J	57	4.5 J	7.2 J	1220	< 3	65700	680 J	< 0.2	65.3	5410 J	< 5	< 5	351000	< 10	58.1 J	< 7	20 U
	11/29/2010	133 J	< 10	< 10	31.9 J	< 5	0.7 J	255000 J	71.7	4.3 J	8.3 J	1600	< 3	65000	759 J	< 0.2	61.4	5450 J	< 5	< 5	338000	< 10	59.4 J	< 7	32.7 J
	12/4/2012	110 J	< 10	< 10	28 J	< 5	0.68 J	270000	52	4.8 J	< 25	810	< 3	58000	1400	< 0.2	31 J	4500 J	< 5	< 5	310000	< 10	60 J	< 7	50 U
	12/8/2016	340	<10	3.4 J	26 J	<5	0.36 J	190000	74	3.5 J	6.2 J	1100	5.2	45000	1400	<0.2	36 J	4000 J	<15	<5	220000	<10	60 J	<10	18 J
UAW12-20	5/6/2001	NA	<10	5.8 B	75.7 B	<5	<2	727000	2.2 B	<7	<25	3010	<3	54800	NA	<0.2	18.2 B	10500	<5	<5	485000	14.4	66.9 B	2.8 B	29.8 MBD
	11/15/2001	NA	<10	<10	20.3 B	<5	<2	NA	<5	<7	19.7 B	NA	<3	NA	NA	<0.2	5.3 B	NA	<5	<5	NA	12.1 J	82.9 B	6 B	<20
	10/20/2002	102 B J	<10	8.9 B	18.1 B	<5	<2	742000 J	3.1 B	<7	1.8 B	213	<3	55400	4940	<0.2	3.2 B	10100 J	<5	NA	356000	8.1 B	255	5.2 B	<20
	11/12/2003	63.1 B	<10	3.8 B	21.1 B J	<5	<2	660000 J	2.8 B	<7	<25	296 J	<3	46100	5220 J	<0.2	5.4 B	8310 J	<5	<5	632000	<10	105	2.1 B	13.7 B J
	3/28/2004	70.8 B J	<10	<10	26.2 B	<5	0.28 B	856000	<5	<7	4.7 B J	456	<3	67900	9570 J	<0.2	<40	8250 J	<5	<5	765000	<10	101	2.7 B	<20

Table B-3
Summary of Inorganic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
	11/4/2004	<200	<10	<10	21 B	<5	<2	538000	2.5 B	<7	<25	249	<3	42600 J	6000 J	<0.2	2.5 B	9160	<5	<5	589000	<10	78.8 B	2.5 B	<20
	11/14/2005	<200	<10	<10	28.8 B	<5	<2	807000 J	1.7 B	<7	<25	752	<3	48200	4920 J	<0.2	3.1 B	11200	<5	<5	844000	<10	33.3 B	2.2 B	7.7 U
	11/6/2006	< 200	< 10	5.7 B	33.5 B	< 5	0.66 B	830000 J	< 5	< 7	27.2 J	2190	5.7	96900	4820 J	<0.2	3.9 B	13700 J	< 5	< 5	726000	7.8 B	71.2 B	2 B	56.1 J
	11/16/2007	< 200	< 10	< 10	39.2 B	< 5	< 2	781000	< 5	< 7	12.8 B	952	< 3	60700	6230	< 0.2	< 40	14200 J	< 5	< 5	964000	< 10	70.5 B	2.5 B	39.9
	11/6/2008	< 200	2.9 B	9.7 B	48.6 B J	< 5	< 2	452000 J	< 5	< 7	11 B	1750	< 3	65300 J	5160 J	< 0.2	3.9 B	13900	< 5	< 5	735000	< 10	540	3.8 B	< 20
	11/19/2009	< 200	< 10	< 10	51.4 B	< 5	< 2	735000	60.5	< 7	18.2 B	1180	< 3	53200	3490	< 0.2	22.3 B	11200	< 5	< 5	859000	< 10	127	1.9 B	23.3
	11/29/2010	< 200	< 10	< 10	45.7 J	< 5	< 2	739000 J	54.1	< 7	27.2	1150	< 3	61100	4640 J	< 0.2	21.2 J	9060 J	< 5	< 5	756000	< 10	95 J	2.7 J	40.1 J
	12/4/2012	< 200	< 10	7.4 J	55 J	< 5	< 2	870000	23	< 7	8.3 J	400	< 3	53000	3900	< 0.2	10 J	8800	< 5	< 5	570000	4.8 J	720	3 J	50 U
	12/9/2016	<200	<10	6.3 J	44 J	<5	<2	590000	19	<7	<25	240	7.1	38000	2900	<0.2	7.7 J	7400	<15	<5	320000	<10	450	<10	<50
UAW13-20	5/6/2001	NA	<10	36.1	21.2 B	<5	<2	818000	3.4 B	<7	<25	90.4 B	<3	81900	NA	<0.2	12.4 B	10400	<5	<5	491000	5 B	1060	14.8	22.1 MBD
	11/15/2001	NA	4.2 B	83.1	27.4 B	<5	0.28 B	NA	315	<7	597	NA	<3	NA	NA	0.11 B	23.2 B	NA	<5	<5	NA	16.6 J	1930	16.4	23.7
	10/23/2002	<200	<10	59.1 J	20.1 B	<5	<2	1030000	110	<7	4.2 B	143	<3	96600	2750	<0.2	19.2 B	12200 J	<5	NA	947000	5.5 B	2330	13.1	<20
	11/12/2003	<200	<10	45.2	13.8 B J	<5	<2	897000 J	49.4	<7	<25	142 J	<3	98800	2760 J	<0.2	16.6 B	12600 J	<5	<5	757000	<10	1710	12.3	<20
	3/28/2004	65.8 B J	<10	39.6	9.1 B	<5	<2	875000	56.3	<7	15.9 B J	102	<3	108000	3140 J	<0.2	12.2 B	10800 J	<5	<5	871000	<10	1780	12.7	16.7 B
	11/5/2004	55.9 B	<10	38.2	12.9 B	0.79 B	<2	567000	10.8	<7	<25	<100	<3	109000 J	2840 J	<0.2	16.5 B	11700	<5	<5	578000	<10	1870	13.9	19.9 B
	11/16/2005	<200	<10	33.4	10.7 B	<5	<2	828000	12.9	<7	2.0 B	<100	<3	106000	2810	<0.2	11.8 B	9670 J	<5	<5	558000	<10	1880	11.8	8.5 J
	10/31/2006	< 200	< 10	27.8	10 B	< 5	< 2	878000 J	50.3	< 7	7.2 B J	480	< 3	95700	3180 J	<0.2	10.8 B	10600 J	< 5	< 5	701000	< 10	1780	9.7	11.7 B J
	11/16/2007	< 200	< 10	26.5	6.3 B	< 5	< 2	797000	24.3	< 7	< 25	< 100	< 3	74900	3190	< 0.2	10.4 B	7850 J	< 5	< 5	522000	< 10	1740	8.1	10.7 B
	11/6/2008	< 200	6.5 B	77.1	10.6 B J	< 5	< 2	459000 J	78.2	< 7	< 25	456	< 3	78900 J	2360 J	< 0.2	18.8 B	9310	< 5	< 5	1180000	< 10	3310	7.5	< 20
	11/19/2009	< 200	< 10	27.6	5.4 B	< 5	< 2	787000	34.5	< 7	< 25	< 100	< 3	85200	2740	< 0.2	10.1 B	7960	< 5	< 5	651000	5.4 B	1690	7.6	20 U
	11/29/2010	< 200	3 J	49.6	11.4 J	< 5	< 2	966000 J	43.9	< 7	4.5 J	177	< 3	90100	2460 J	< 0.2	14.1 J	8700 J	< 5	< 5	1040000	< 10	2020	7.4	20 U
	12/4/2012	180 J	< 10	29	16 J	< 5	< 2	980000	180	< 7	8.4 J	770	< 3	120000	1700	< 0.2	10 J	8700	< 5	< 5	670000	< 10	1800	8	50 U
	12/9/2016	140 J	<10	15	5.2 J	<5	0.35 J	750000	570	<7	5.3 J	1800	11	56000	2700	<0.2	27 J	4800 J	<15	<5	460000	<10	1300	<10	18 J
UAW14-10	5/5/2001	286	<10	<10	82.6 B	<5	<2	107000	<5	<7	13.3 B	294	<3	30600	53.8	<0.2	6.1 B	1270 B	<5	<5	36500	<10	NA	<7	<20
	11/9/2001	177 B	<10	<10	69.1 B	<5	<2	110000 J	<5	<7	<25	453	<3	31700 J	26.4 J	<0.2	3.4 B	1530 B	<5	<5	37900 J	<10	NA	<7	<20
	10/16/2002	359	<10	<10	72 B	<5	0.41 B	100000 J	4.3 B	1.4 B J	<25	881	<3	29300 J	100 J	<0.2	4 B	1620 B J	<5	NA	31400	8.9 B	<100	1 B	<20
	11/16/2003	57 B J	<10	6 B	73.7 B J	<5	1.3 B J	111000 J	5.5 J	1.8 B J	4 B J	1850	<3	30100 J	60.1 J	<0.2	6.8 B J	1820 B J	4.1 B	1.3 B	30900	15.3 J	4.7 B	<7	<20
	4/5/2004	<200	<10	<10	59.9 B J	<5	<2	115000	10.9	<7	<25	2680	<3	33000 J	72.5	<0.2	20.5 B	1120 B J	<5	<5	22900	<10	<100	<7	<20
	11/6/2004	<200	<10	<10	71.5 B	<5	<2	104000	<5	<7	<25	323	<3	27800	31.2 J	<0.2	4.7 B	1370 B J	<5	<5	33000	<10	<100	<7	<20
	11/16/2005	<200	<10	4.5 B	57 B	<5	<2	104000 J	<5	<7	<25	1530 J	<3	31300	59.7	<0.2	1.8 B	1080 B J	2.4 B	<5	25200	<10	<100	<7	<20
	11/8/2006	< 200	< 10	< 10	73.1 B	< 5	< 2	104000 J	< 5	< 7	1.9 B J	1610	< 3	29200	50.3 J	<0.2	1.8 B	1280 B J	< 5	< 5	30200	< 10	< 100	< 7	< 20
	11/7/2007	170 B	< 10	< 10	76.1 B J	< 5	< 2	91700 J	< 5	< 7	< 25	1440	< 3	24500 J	183 J	< 0.2	3.5 B	1580 B J	< 5	< 5	35200	< 10	< 100	< 7	< 20
	11/13/2008	< 200	7.2 B	8.3 B	59.1 B	< 5	< 2	102000 J	< 5	< 7	< 25	2470	< 3	32500 J	143 J	< 0.2	< 40	1070 B	< 5	< 5	21300	< 10	< 100	1.2 B	< 20
	11/24/2009	< 200	< 10	< 10	76.8 B	< 5	< 2	106000	< 5	< 7	< 25	910	< 3	28900	30.1	< 0.2	< 40	1430 B	< 5	< 5	30600	< 10	5.2 B	< 7	< 20
	11/30/2010	< 200	< 10	5.9 J	51.6 J	< 5	< 2	109000 J	< 5	< 7	< 25	2030	< 3	34300	61.5 J	< 0.2	< 40	1010 J	< 5	< 5	22000	< 10	< 100	< 7	< 20
	12/13/2012	160 J	< 10	6.9 J	66 J	< 5	< 2	110000	52	< 7	< 25	3300	< 3	32000	73	< 0.2	12 J	1000 J	< 5	< 5	24000	< 10	< 100	< 7	< 50
	12/14/2016	<200	<10	6.8 J	80 J	<5	<2	97000	6.7	<7	<25	4000	<5	28000	35	<0.2	3.5 J	850 J	<15	<5	26000	<10	<100	<10	<50
UAW15-20	5/6/2001	147 B	<10	<10	221	<5	0.49 B	237000	2 B	21.4	26.4	156	<3	61600	397	<0.2	55.1	2430 B	<5	<5	421000	6.2 B	NA	<7	23 MBD
	11/11/2001	271 J	<10	<10	330	<5	0.48 B	311000	8.7	14.6	4.9 B	398	<3	77100	231	<0.2	102	3060 B	<5	<5	506000	14 J	NA	<7	<20
	10/18/2002	85.5 B J	<10	<10	145 B	<5	0.5 B	148000 J	9.7	15	1.8 B	273	<3	37400	16.1	<0.2	57.5	1930 B J	<5	NA	281000	7.4 B	261	<7	<20
	11/17/2003	104 B J	<10	<10	290 J	<5	1.2 B J	214000 J	24.6 J	7.6 J	5 B J	218	<3	51900 J	60.3 J	<0.2	66.3 J	4610 B J	<5	<5	990000	11.7 J	131	<7	<20
	4/7/2004	214 J	<10	<10	563 J	<5	<2	485000	40.6	10.1	3 B	571	<3	115000 J	102	<0.2	374	7100 J	<5	<5	1480000	5.6 B	80.7 B	<7	22.8
	11/7/2004	167 B J	<10	<10	335	<5	0.63 B	229000	13.6	11.1	3 B	160	<3	58900	104	<0.2	155	6590 J	<5	<5	1290000	<10	104	<7	<20
	11/15/2005	<200	<10	<10	275	0.46 U	<2	206000	38.3	9.6	3.4 B	865	<3	54200	85.3	<0.2	166	5900 J E	2.9 B	<5	1180000	<10	216 E	<7	<20

Table B-3
Summary of Inorganic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
	11/2/2006	< 200	< 10	< 10	422	< 5	0.43 B	334000 J	53.6	13.5	9.6 B J	826	< 3	88300	114 J	<0.2	415	6680 J	< 5	< 5	1400000	< 10	110	< 7	6.9 B J
	11/19/2007	188 B	< 10	< 10	215 J	< 5	< 2	210000 J	13.3	10.5	5.4 B	747 J	< 3	52900 J	28.4 J	< 0.2	59.1	3760 B	< 5	< 5	587000	6.4 B	118	< 7	53.7
	11/14/2008	< 200	< 10	< 10	225 J	< 5	< 2	181000 J	106	9.3	< 25	640	< 3	44700	70.8	< 0.2	94.7	3770 B J	< 5	< 5	1060000	< 10	138	< 7	< 20
	11/11/2009	< 200	< 10	< 10	524	< 5	< 2	404000	246	20.9	17.7 B	3730	< 3	106000	233	< 0.2	822	5870 J	< 5	< 5	1530000	10 U	154	< 7	20 U
	11/23/2010	166 J	< 10	< 10	581 J	0.57 J	< 2	453000	1150	15.9	18 J	10500 J	< 3	115000	200 J	< 0.2	469	6870 J	< 5	< 5	1430000	10 U	112	4.5 J	12.7 J
	12/5/2012	< 200	< 10	5.9 J	240	< 5	< 2	220000	3200	7.6	49	16000	< 3	49000	33	< 0.2	230	2900 J	< 5	< 5	640000	< 10	72 J	8.5	50 U
	12/8/2016	<200	<10	<10	73 J	<5	<2	84000	130	3.2 J	3.9 J	1100	2 J	21000	17	<0.2	58	1900 J	<15	<5	340000	<10	59 J	<10	<50
UAW15-50	5/6/2001	147 B	14.4	83.5	1090	<5	<2	257000	3.1 B	13.7	<25	15600	<3	107000	735	<0.2	130	9520	<5	<5	261000	6.1 B	NA	<7	24.6
	11/11/2001	197 B J	16	83	960	<5	0.29 B	250000	1.9 B	11	<25	16400	<3	108000	653	0.18 B	102	8780	<5	<5	253000	16.7 J	NA	<7	<20
	10/18/2002	88.4 B J	12.2	91.6	766	<5	<2	206000 J	1.6 B	4.1 B	<25	13000	<3	88700	588	<0.2	76.4	7280 J	<5	NA	210000	6.6 B	2400	<7	<20
	11/17/2003	60.6 B J	8.5 B	71.4	648 J	<5	1.2 B J	225000 J	5.4 J	4.2 B J	2.9 B J	10400	<3	90400 J	682 J	<0.2	84.7 J	7320 J	<5	<5	202000	9.4 B J	2050	<7	<20
	4/7/2004	62.3 B J	11.1	77.1	664 J	<5	0.53 B	196000	2.5 B	7.8	<25	13600	<3	75500 J	543	<0.2	85.8	6400 J	<5	<5	182000	8.7 B	2110	<7	15.8 B
	11/7/2004	65 B J	8.7 B	62.6	566	<5	0.37 B	173000	<5	5.4 B	<25	9630	<3	69300	665	<0.2	74.9	6090 J	<5	<5	165000	7.5 B	1950	<7	18.7 B
UAW15-50 Dup	11/7/2004	62.6 B J	8.4 B	60.7	553	<5	0.46 B	168000	<5	4.8 B	<25	9420	<3	67400	644	<0.2	72.6	5940 J	<5	<5	160000	<10	2010	<7	<20
	11/15/2005	<200	6.4 B	62.9	486	0.45 B J	<2	157000	<5	3.3 B	<25	7840	<3	66300	630	<0.2	73.7	5380 J	<5	<5	142000	<10	2140	<7	9.6 B
	11/2/2006	< 200	5.9 B	64.6	528	< 5	0.8 B	171000 J	< 5	1.6 B	3.4 B J	8140	< 3	65700	592 J	<0.2	58.6	6360 J	< 5	< 5	150000	6.9 B	1830	< 7	12.7 B J
	11/19/2007	< 200	< 10	44.3	423 J	< 5	< 2	151000 J	< 5	< 7	< 25	5180 J	< 3	59200 J	632 J	< 0.2	39 B	5160	< 5	< 5	125000	< 10	1310	< 7	16.3 B
	11/14/2008	< 200	< 10	45.7	382 J	< 5	< 2	142000 J	< 5	< 7	< 25	6680	< 3	54200	834	< 0.2	41.7	4350 B J	< 5	< 5	107000	< 10	1200	< 7	< 20
	11/11/2009	< 200	< 10	42.7	351	< 5	< 2	128000	< 5	< 7	< 25	5760	< 3	48700	899	< 0.2	31.6 B	3810 B	< 5	< 5	87900	< 10	827	< 7	20 U
	11/23/2010	< 200	2.3 J	42.2	375 J	0.51 J	< 2	126000	< 5	< 7	< 25	7390 J	< 3	49500	838 J	< 0.2	29.2 J	4710 J	< 5	< 5	93300	< 10	596	< 7	10.1 J
UAW15-50 Dup	11/23/2010	< 200	< 10	42.1	373 J	0.54 J	< 2	126000	< 5	< 7	< 25	7590 J	< 3	49400	850 J	< 0.2	28.8 J	4690 J	< 5	< 5	93100	< 10	582	< 7	22.4
	12/5/2012	< 200	< 10	48	330	< 5	< 2	130000	< 5	< 7	< 25	7600	< 3	51000	810	< 0.2	27 J	4100 J	< 5	< 5	72000	7.1 J	660	< 7	50 U
	12/8/2016	770	4.2 J	12	40 J	<5	0.93 J	54000	12	0.87 J	45	2400	9.1	4900 J	120	<0.2	6.3 J	1800 J	<15	<5	13000	<10	290	<10	190
UAW16-10	10/12/2001	98.3 B	<10	24.9	55.5 B	<5	<2	223000	7	1.9 B	<25	1300	<3	38900	2760	<0.2	17.1 B	7420 J	<5	<5	277000	5.5 B J	NA	59.3	<20
UAW16-10 Dup	10/12/2001	98.6 B	<10	23.2	55.1 B	<5	<2	221000	6.9	1.8 B	<25	1250	<3	38200	2740	<0.2	17.5 B	7310 J	<5	<5	275000	8.6 B J	NA	59.1	<20
	11/13/2001	94.1 B	3.6 B	20.6	49.6 B	<5	<2	277000 J	4.3 B	<7	6.8 B	1150	<3	45700 J	2390 J	<0.2	12.7 B	9650 J	<5	<5	281000 J	<10	NA	29.1	<20
	10/18/2002	<200	<10	8.9 B	56.5 B	<5	<2	410000 J	2.7 B	1.2 B	<25	721	<3	58300 J	4460 J	<0.2	24.3 B	10500 J	<5	NA	367000	8.9 B	741	5.7 B J	<20
	11/17/2003	57.3 B J	<10	5.1 B	38.4 B J	<5	1.1 B J	369000 J	5.7 J	1.7 B J	2.2 B J	603	<3	43100 J	3180 J	<0.2	17.1 B J	7040 J	<5	1.3 B	242000	8.5 B J	665	4.1 B	<20
UAW16-10 Dup	11/17/2003	62.9 B J	3.1 B	4.7 B	40.4 B J	<5	0.97 B J	382000 J	5.8 J	1.6 B J	2.3 B J	634	<3	45100 J	3300 J	<0.2	18.3 B J	7290 J	<5	1.3 B	250000	11.9 J	694	4.3 B	<20
	4/7/2004	<200	<10	<10	33.5 B J	<5	<2	329000	<5	<7	<25	529	<3	36200 J	3130	<0.2	15.3 B	6380 J	<5	<5	200000	6.8 B	602	1.6 B	<20
	11/7/2004	63.3 B J	<10	<10	28 B	<5	<2	261000	<5	<7	<25	340	<3	30100	2520	<0.2	<40	5150 J	<5	<5	127000	<10	623	0.8 B	<20
	11/15/2005	<200	<10	10.3	35.6 B	0.42 U	<2	308000	<5	<7	<25	70.7 B	<3	34300	2260	<0.2	7.2 B	4950 B J	<5	<5	166000	<10	2000	2.0 B	<20
	11/6/2006	< 200	< 10	< 10	32.5 B	< 5	< 2	251000 J	< 5	< 7	< 25	255	< 3	44100	1690 J	<0.2	6.8 B	6580 J	< 5	< 5	211000	< 10	1060	2.1 B	< 20
	11/19/2007	< 200	< 10	< 10	43.8 B J	< 5	< 2	257000 J	< 5	< 7	< 25	502 J	< 3	40900 J	1660 J	< 0.2	12.7 B	10800	< 5	< 5	369000	6.6 B	973	3.2 B	7.9 B
	11/18/2008	< 200	< 10	< 10	93.3 B J	< 5	< 2	534000 J	< 5	< 7	< 25	704	< 3	66400 J	4830 J	< 0.2	13 B	10700 J	< 5	< 5	594000	< 10	798	< 7	7.9 B
	11/20/2009	< 200	< 10	< 10	36.9 B	< 5	< 2	254000	< 5	< 7	< 25	1000	< 3	32100	2040	< 0.2	4.3 B	4940 B	< 5	< 5	213000	< 10	567	1.1 B	< 20
	11/17/2010	< 200	2 J	4.4 J	78.5 J	< 5	< 2	330000 J	< 5	< 7	9.6 J	1400	< 3	59500	1980 J	< 0.2	6.7 J	10300 J	< 5	< 5	528000	10 U	914	1 J	26.1 UJ
	11/30/2012	< 200	< 10	< 10	30 J	< 5	< 2	210000	< 5	< 7	< 25	2000	< 3	24000	1400	< 0.2	7.9 J	4900 J	< 5	< 5	170000	< 10	530	7 U	< 50
UAW16-10 Dup	11/30/2012	< 200	< 10	3.4 J	30 J	< 5	< 2	220000	< 5	< 7	< 25	2000	< 3	25000	1400	< 0.2	7.8 J	5100	< 5	< 5	180000	< 10	580	7 U	50 U
	12/8/2016	100 J	<10	4.2 J	45 J	<5	<2	180000	3.2 J	0.94 J	<25	1400	3.5 J	33000	980	<0.2	9.7 J	6800	<15	<5	300000	<10	1100	<10	22 J
	12/8/2016	85 J	<10	<10	44 J	<5	<2	170000	2.7 J	0.94 J	3.9 J	1300	2.9 J	31000	910	<0.2	8.2 J	6500	<15	<5	270000	<10	860	<10	19 J
UAW17-40	5/5/2001	955	<10	7.6 B	216	<5	<2	102000	2 B	<7	<25	3720	<3	31400	242	<0.2	12.5 B	1900 B	<5	<5	17400	<10	NA	1.5 B	<20
	11/9/2001	395	<10	16.2	177 B	<5	<2	116000 J	2.5 B	<7	<25	4700	<3	36900 J	301 J	<0.2	5 B	1720 B	<5	<5	13100 J	<10	NA	0.92 B	<20
	10/16/2002	333	<10	17.9	121 B	<5	<2	108000 J	1.6 B	1.7 B	<25	3930	<3	33700 J	268 J	<0.2	5.3 B	1480 B J	<5	NA	11100	<10	<100	1.2 B J	<20

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Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
	11/16/2003	63.3 B J	<10	19.1	117 B J	<5	1 B J	111000 J	4.5 B J	1.9 B J	2.9 B J	3450	<3	33000 J	241 J	<0.2	6.9 B J	1330 B J E	<5	<5	10700	12.7 J	<100	<7	<20
	3/31/2004	166 B	<10	10.9	100 B	<5	<2	102000 J	4.6 B	<7	<25	1510	<3	30900 J	148 J	<0.2	3.9 B	1390 B J E	<5	<5	11300	<10	<100	<7	<20
	11/6/2004	27.6 B	<10	14.2	135 B	<5	<2	110000	<5	<7	2.5 B	3030	<3	33000	250 J	<0.2	<40	948 B J	<5	<5	10500	<10	<100	<7	<20
	11/14/2005	<200	<10	8.5 B	134 B	<5	<2	110000 J	<5	<7	<25	2580	<3	34500	266 J	<0.2	1.4 B	817 B	<5	<5	9590	<10	<100	<7	<20
	10/31/2006	48.2 B	< 10	8.3 B	134 B	< 5	< 2	115000 J	< 5	< 7	2 B J	2450	< 3	34800	309 J	<0.2	< 40	966 B J	< 5	< 5	10300	< 10	< 100	< 7	< 20
	11/19/2007	< 200	< 10	< 10	187 B J	< 5	< 2	98300 J	< 5	< 7	< 25	1600 J	< 3	30900 J	311 J	< 0.2	< 40	851 B	< 5	< 5	13400	5.8 B	8 B	< 7	< 20
	11/7/2008	< 200	< 10	3.9 B	190 B J	< 5	< 2	85400 J	< 5	< 7	< 25	1640	< 3	26700 J	285 J	< 0.2	< 40	1000 B	< 5	< 5	13400	< 10	< 100	< 7	< 20
	11/13/2009	< 200	< 10	5 B	165 B	< 5	< 2	99900	< 5	< 7	< 25	1620	< 3	29600	309	< 0.2	< 40	834 B	< 5	< 5	9200	< 10	< 100	< 7	< 20
	11/11/2010	< 200	< 10	6.8 J	148 J	< 5	< 2	109000	< 5	< 7	4.7 J	2100 J	< 3	34300	359	< 0.2	< 40	854 J	< 5	< 5	9680	8.8 J	< 100	< 7	< 20
	12/13/2012	130 J	< 10	28	190 J	< 5	< 2	98000	< 5	< 7	< 25	5700	< 3	28000	140	0.14 J	< 40	690 J	< 5	< 5	10000	< 10	< 100	< 7	< 50
	12/14/2016	52 J	<10	32	230	<5	<2	93000	<5	<7	<25	6700	<5	28000	150	<0.2	<40	640 J	<15	<5	7900	<10	<100	<10	<50
UAW18-20	10/12/2001	97.9 B	<10	12	169 B	<5	0.31 B	73100	1.5 B	2 B	<25	5340	<3	13900	1220	<0.2	28.8 B	6060 J	<5	<5	1520000	5.8 B J	NA	1.7 B	<20
	11/13/2001	60.8 B	<10	11.7	186 B	<5	<2	89100 J	<5	1.8 B	<25	4800	<3	16800 J	1130 J	<0.2	28.6 B	6120 J	<5	<5	1720000 J	<10	NA	<7	<20
	10/18/2002	<200	<10	13.1	49.5 B	<5	<2	23600 J	2 B	2.2 B	<25	1570	<3	6820 J	282 J	<0.2	16.3 B	1830 B J	<5	NA	487000	<10	1670	1.8 B J	<20
	11/16/2003	70.5 B J	<10	17.8	197 B J	<5	1 B J	99800 J	4.9 B J	1.8 B J	2.6 B J	1710	<3	39900 J	685 J	<0.2	37.6 B J	6240 J	<5	1.2 B	1040000	12.5 J	2000	1.5 B	<20
	4/7/2004	40.6 B J	<10	8.2 B	299 J	<5	<2	216000	<5	<7	<25	3300	<3	81500 J	1900	<0.2	33.4 B	6950 J	<5	<5	905000	8.4 B	1710	1.2 B	<20
	11/7/2004	104 B J	<10	32.3	759	<5	<2	469000	<5	<7	<25	3370	<3	105000	5390	<0.2	62.8	7970 J	<5	<5	1200000	5 B	2040	3.5 B	<20
	11/15/2005	263	<10	<10	65 B	0.47 U	<2	75800	<5	2.3 B	2.3 B	1120	<3	12300	460	<0.2	6.3 B	1620 B J	4.6 B	<5	111000	<10	152	<7	53.8
	11/6/2006	118 B	< 10	26.9	153 B	< 5	< 2	108000 J	< 5	< 7	4 B J	1690	< 3	25000	1050 J	<0.2	13.4 B	2340 B J	< 5	< 5	537000	< 10	3660	< 7	12.2 B J
	11/16/2007	124 B	< 10	7.7 B	416	< 5	< 2	204000	< 5	< 7	< 25	2990	< 3	45000	1660	< 0.2	23.4 B	4350 B J	< 5	< 5	1020000	< 10	729	1.3 B	24
	11/18/2008	353	< 10	4.6 B	281 J	< 5	< 2	224000 J	2.5 B	< 7	< 25	4870	< 3	47800 J	1890 J	< 0.2	34.9 B	6430 J	< 5	< 5	462000	< 10	391	0.69 B	29.1
	11/24/2009	< 200	< 10	4.4 B	489	< 5	< 2	343000	< 5	< 7	< 25	11400	< 3	67900	4690	< 0.2	23.9 B	6730	< 5	< 5	1040000	< 10	1260	< 7	< 20
	11/17/2010	196 J	< 10	< 10	45.1 J	< 5	< 2	52800 J	2.4 J	< 7	< 25	2980	2.2 J	11100	523 J	< 0.2	18.3 J	1850 J	< 5	< 5	80500	< 10	230	0.79 J	32.5 UJ
	12/7/2012	1200	< 10	7.2 J	110 J	< 5	< 2	72000	25	2.2 J	51	3800	22	16000	470	< 0.2	67	2200 J	< 5	< 5	210000	< 10	290	4 J	140
	12/14/2016	2000	<10	<10	38 J	<5	<2	39000	6.9	<7	16 J	2100	9.2	3400 J	79	<0.2	7.2 J	1800 J	<15	<5	34000	<10	99 J	10	79
UAW19-80	5/6/2001	150 B	<10	<10	112 B	<5	0.33 B	194000	1.4 B	<7	<25	363	<3	58700	117	<0.2	11.7 B	1970 B	<5	<5	53000	<10	NA	<7	18.4 B
	11/12/2001	1010 J	<10	<10	113 B	<5	<2	177000	19.6	1.4 B	12.4 B	1700	<3	52700	60.9	<0.2	14.1 B	2020 B	<5	<5	58700	10.3 J	NA	1 B	<20
UAW19-80 Dup	11/12/2001	65.4 B J	<10	<10	25.4 B	<5	0.62 B	358000	11.8	13.3	12.1 B	<100	<3	81600	1190	<0.2	66.3	5960	<5	<5	261000	8.2 B J	NA	<7	<20
	10/17/2002	406	<10	<10	107 B	<5	<2	197000 J	6.5	0.84 B	<25	592	<3	57700 J	27.8 J	<0.2	6.2 B	2130 B J	<5	NA	60100	7.6 B	<100	1 B J	<20
UAW19-80 Dup	10/17/2002	345	<10	<10	110 B	<5	<2	194000 J	6.3	0.89 B	<25	544	<3	57100 J	26.9 J	<0.2	5.8 B	2090 B J	<5	NA	59700	5.9 B	<100	1.1 B J	<20
	11/13/2003	76.3 B	<10	<10	88.9 B J	0.72 B	<2	196000 J	5.8	<7	<25	138 J	<3	56600	17.5 J	<0.2	10.8 B	1870 B J	<5	<5	59600	<10	<100	<7	<20
	3/30/2004	423	<10	<10	95.7 B	<5	<2	213000 J	5.2	<7	<25	549	<3	61100 J	28.4 J	<0.2	<40	1830 B J	<5	<5	62400	<10	<100	<7	<20
	11/5/2004	51.4 B	<10	<10	83.4 B	<5	<2	201000	<5	<7	<25	116	<3	59000 J	12.8 B J	<0.2	3.4 B	1880 B	<5	<5	63900	<10	<100	<7	<20
	11/11/2005	86.8 B	<10	<10	81.5 B	<5	<2	190000 J	<5	<7	<25	115	<3	58000	17.8 J	<0.2	2.0 B	1890 B	<5	<5	69200	<10	<100	<7	<20
UAW19-80 Dup	11/11/2005	79.8 B	<10	<10	79.7 B	<5	<2	186000 J	<5	<7	<25	120	<3	57000	17.0 J	<0.2	1.7 B	1870 B	<5	<5	67900	<10	<100	<7	<20
	11/8/2006	1970	< 10	< 10	108 B	< 5	< 2	213000 J	16.1	< 7	5.3 B J	3230	2.2 B	63700	80.2 J	<0.2	4.4 B	2280 B J	< 5	< 5	68800	< 10	< 100	3.1 B	10 B J
	11/14/2007	< 200	< 10	< 10	79.9 B	< 5	< 2	202000 J	< 5	< 7	< 25	< 100	< 3	59400	14.3 B	< 0.2	< 40	2060 B J	< 5	< 5	69600	< 10	< 100	< 7	< 20
	11/11/2008	< 200	< 10	< 10	65.9 B J	< 5	< 2	192000 J	< 5	< 7	< 25	< 100	< 3	57900 J	12.2 B J	< 0.2	< 40	1690 B	< 5	< 5	62300	< 10	< 100	< 7	< 20
	11/23/2009	< 200	< 10	< 10	67.7 B	< 5	< 2	180000	< 5	< 7	< 25	< 100	< 3	52600	13.7 B	< 0.2	< 40	1700 B	< 5	< 5	65700	< 10	< 100	< 7	< 20
	11/23/2010	< 200	< 10	< 10	71 J	0.49 J	< 2	179000	< 5	< 7	< 25	< 100	< 3	54200	15.1 J	< 0.2	< 40	1980 J	< 5	< 5	66000	< 10	< 100	< 7	< 20
	12/7/2012	< 200	< 10	< 10	64 J	< 5	< 2	180000	< 5	< 7	< 25	< 100	< 3	51000	17	< 0.2	< 40	1700 J	< 5	< 5	63000	< 10	< 100	< 7	< 50
	12/17/2016	50 J	<10	<10	64 J	0.26 J	<2	160000	0.68 J	<7	<25	50 J	<5	48000	17	<0.2	<40	1700 J	<15	<5	66000	<10	<100	<10	<50
UAW20-60	5/7/2001	200	<10	<10	149 B	<5	<2	390000	4.1 B	3 B	16.8 B	268	<3	97400	366	<0.2	18.4 B	4060 B	<5	<5	128000	7.4 B	NA	<7	14.4 B MBE
	11/14/2001	<200	<10	<10	26.5 B	<5	0.3 B	446000	<5	2.3 B	5.8 B	<100	<3	124000 J	303	<0.2	8.7 B	3640 B	<5	<5	139000	13.8	NA	<7	<20

Table B-3
Summary of Inorganic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
UAW20-60 Dup	11/14/2001	70.6 B J	2.8 B	<10	26.1 B	<5	0.33 B	436000	<5	2.2 B	5.3 B	175	<3	123000 J	303	<0.2	8.9 B	3550 B L	<5	<5	137000	10.3	NA	<7	<20
	10/19/2002	76.5 B J	<10	<10	20.8 B	<5	0.4 B	373000 J	6	1.6 B	<25	50.3 B	<3	104000	179	<0.2	7.1 B	2350 B J	<5	NA	114000	5.5 B	15 B	<7	<20
UAW20-60 Dup	10/19/2002	102 B J	<10	20.8	69 B	<5	<2	242000 J	4.7 B	0.81 B	<25	939	<3	36600	696	<0.2	38.2 B	4970 B J	<5	NA	234000	6.6 B	547	5.2 B	<20
	11/13/2003	<200	<10	<10	19.9 B J	0.6 B	<2	377000 J	2.2 B	1.2 B	<25	<100	<3	96900	111 J	<0.2	7.1 B	2240 B J	<5	<5	99100	<10	<100	<7	<20
	3/30/2004	59.4 B J	<10	<10	18.4 B	<5	0.57 B	385000	43.3	2.1 B	3.9 B	333	<3	99400	96.3 J	<0.2	21.6 B	2080 B J	<5	<5	103000	<10	9 B	<7	<20
	11/5/2004	<200	<10	<10	18.5 B	<5	<2	422000	1.9 B	<7	<25	<100	<3	109000 J	95.3 J	<0.2	6.5 B	2250 B	<5	<5	104000	7.9 B	<100	<7	<20
	11/11/2005	<200	<10	<10	19.8 B	<5	<2	423000 J	<5	<7	<25	148	<3	120000	127 J	<0.2	7.0 B	2460 B	<5	<5	109000	<10	<100	<7	9.5 U
	11/7/2006	< 200	< 10	< 10	21.5 B	< 5	0.87 B	355000 J	5.7	< 7	3.9 B J	758	< 3	100000	94.7 J	<0.2	8.2 B	1960 B J	< 5	< 5	85200	5.3 B	9.8 B	< 7	8.3 B J
	11/15/2007	< 200	< 10	4.2 B	20.4 B	< 5	1 B	343000	4.7 B	2.7 B	6 B	306	< 3	97000	80.6	< 0.2	6.7 B	2180 B J	< 5	< 5	85600	< 10	7.3 B	< 7	5.6 B
	11/18/2008	< 200	< 10	< 10	18 B J	< 5	< 2	309000 J	< 5	< 7	< 25	< 100	< 3	91800 J	56.2 J	< 0.2	4.8 B	2070 B J	< 5	< 5	73200	< 10	< 100	< 7	< 20
	11/23/2009	< 200	< 10	< 10	23.3 B	< 5	< 2	204000	< 5	< 7	< 25	94.1 B	< 3	69400	68.4	< 0.2	4.7 B	2040 B	< 5	< 5	75000	< 10	4.8 B	< 7	< 20
	11/18/2010	< 200	< 10	< 10	26.4 J	< 5	< 2	227000 J	2.6 J	< 7	< 25	225	< 3	72500	63.8 J	< 0.2	4.3 J	2180 J	< 5	< 5	73000	10 U	8.6 J	< 7	20 UJ
	12/10/2012	< 200	< 10	< 10	20 J	< 5	< 2	280000	2.9 J	< 7	< 25	240	< 3	83000	120	< 0.2	5.5 J	2200 J	< 5	< 5	70000	< 10	100 U	< 7	6.1 J
	12/14/2016	<200	<10	<10	17 J	<5	0.49 J	220000	<5	<7	<25	33 J	<5	74000	61	<0.2	1.8 J	2000 J	<15	<5	63000	2.6 J	2.2 J	<10	<50
	12/14/2016	<200	<10	<10	17 J	0.25 J	0.57 J	220000	0.74 J	<7	<25	32 J	<5	73000	61	<0.2	1.8 J	2000 J	<15	<5	62000	<10	1.8 J	<10	<50
UAW21-30	5/5/2001	832	<10	<10	125 B	<5	<2	153000	1.5 B	1.3 B	9.9 B	923	<3	40200	82.8	<0.2	17.7 B	5210	<5	<5	284000	<10	NA	0.95 B	<20
	11/11/2001	3170 J	2.5 B	<10	55.4 B	<5	<2	109000	670	6.5 B	24.2 B	5520	2.7 B	27000	152	<0.2	170	3610 B	<5	<5	53500	6.7 B J	NA	6.4 B	30
	10/18/2002	1500	<10	<10	51.6 B	<5	<2	105000 J	349	18.7	7.9 B	4500	2.1 B	28200 J	340 J	<0.2	623	3410 B J	<5	NA	47800	6.4 B	<100	4.9 B J	<20
	11/11/2003	4660	<10	5.6 B	60.1 B J	<5	<2	121000 J	348	8.5	15.3 B	8000	4.8	32200 J	174 J	<0.2	103	4350 B J	<5	<5	48100	9 B	<100	9	29.8 J
	3/27/2004	1570 J	<10	3.1 B	52 B	<5	<2	115000	209	4.9 B	15.8 B J	3720	<3	30800	108 J	<0.2	171	3560 B J	8.7	<5	37800	7.3 B J	<100	3 B	<20
	11/3/2004	1650	<10	<10	51.6 B	<5	<2	105000	172	6.8 B	19.5 B	4030	4	27500	126	<0.2	518	3460 B J	4.3 B	<5	46200	<10	19.4 B	3.1 B	14.3 B
	11/9/2005	283	<10	<10	53.8 B	0.32 B	<2	114000 J	63.6	4.2 B	3.0 B J	829	<3	30300	67.3 J	<0.2	600 J	3570 B J	3.6 B	<5	78800	<10	<100	<7	<20
	11/9/2006	7270	< 10	7 B	113 B	0.75 B	< 2	140000 J	7230	91.4	157	56500	11.4	39700	1200 J	<0.2	1950	5410 J	< 5	< 5	77600	< 10	6.8 B	39.3	35.9 J
	11/6/2007	< 200	< 10	< 10	108 B J	< 5	< 2	165000 J	450	11.5 U	20.9 B	7580	< 3	42200 J	107 J	< 0.2	994	4610 B J	< 5	< 5	245000	< 10	< 100	< 7	< 20
	11/5/2008	< 200	< 10	< 10	48 B J	< 5	< 2	87900 J	21.5	2.5 B	< 25	643 J	< 3	22800 J	40.9	< 0.2	261	3490 B J	4.8 B	< 5	63300	< 10	< 100	< 7	< 20
	11/13/2009	< 200	< 10	< 10	58.4 B	< 5	< 2	95800	201	9	6 B	2500	< 3	23600	121	< 0.2	249	3540 B	< 5	< 5	86800	10 U	3.7 B	< 7	< 20
	11/15/2010	< 200	< 10	< 10	91.6 J	< 5	< 2	146000 J	507	12.6	11.8 J	4950	< 3	39400	154 J	< 0.2	1230	3610 J	< 5	< 5	145000	10 U	< 100	1.9 J	20 U
	12/14/2012	< 200	< 10	< 10	67 J	< 5	< 2	110000	330	24	7 J	2900	< 3	28000	340	0.18 J	810	2700 J	< 5	< 5	44000	< 10	< 100	< 7	< 50
	12/13/2016	<200	<10	<10	71 J	<5	<2	100000	300	6.2 J	8.3 J	3200	<5	27000	63	<0.2	220	2700	<15	<5	39000	2.1 J	<100	<10	<50
UAW21-80	5/5/2001	271	<10	24.2	258	<5	<2	135000	<5	<7	<25	2020	<3	42800	609	<0.2	7.6 B	1190 B	<5	<5	28600	<10	NA	<7	13.8 B
	11/11/2001	282	<10	42.6	231	<5	<2	136000 J	2.1 B	<7	<25	2990	<3	44500	728	<0.2	7.5 B	1350 B	<5	<5	30700	9.2 B	NA	<7	<20
	10/18/2002	486	<10	45.5	232	<5	<2	143000 J	9.7	2.2 B	<25	3780	<3	45400 J	787 J	<0.2	12.7 B	1380 B J	<5	NA	31900	<10	<100	1.6 B J	<20
	11/11/2003	<200	<10	45.5	230 J	<5	<2	162000 J	1.6 B	<7	<25	2820	<3	50200 J	791 J	<0.2	9.5 B	1300 B J	<5	<5	39800	<10	<100	<7	<20
	3/27/2004	69.5 B J	<10	44.2	222	<5	<2	147000	<5	1 B	<25	2610	<3	45800	798 J	<0.2	6.6 B	1040 B J	4.6 B	<5	38700	<10	<100	<7	<20
	11/3/2004	<200	<10	41.7	215	<5	<2	144000	<5	<7	<25	2460	<3	44700	760	<0.2	6.2 B	1130 B J	<5	<5	41700	5.2 B	<100	<7	<20
	11/8/2005	58.5 B	<10	38.8	208	<5	<2	132000 J	<5	<7	<25	2360	1.8 B	42500	739 J	<0.2	7.1 B	1180 B J	<5	<5	48400	<10	<100	<7	13.4 B
	11/8/2006	125 B	< 10	45.8	223	< 5	< 2	142000 J	2.1 B	< 7	2.2 B J	2800	< 3	45700	789 J	<0.2	6.2 B	1110 B J	< 5	< 5	50900	< 10	< 100	< 7	< 20
	11/6/2007	< 200	< 10	14.8	162 B J	< 5	< 2	83800 J	< 5	< 7	< 25	< 100	< 3	31000 J	< 15	< 0.2	< 40	7190 J	< 5	< 5	29900	< 10	< 100	< 7	< 20
	11/5/2008	< 200	< 10	20.7 J	157 B J	< 5	< 2	83300 J	< 5	< 7	6.3 B	< 100	< 3	33500 J	0.89 B	< 0.2	< 40	6680 J	< 5	< 5	31600	< 10	< 100	0.76 B	< 20
	11/13/2009	< 200	< 10	43.8	214	< 5	< 2	135000	< 5	< 7	< 25	2500	< 3	42300	768	< 0.2	6.8 B	1160 B	< 5	< 5	50700	< 10	< 100	< 7	< 20
	11/15/2010	170 J	< 10	48.3	210 J	< 5	< 2	133000 J	< 5	< 7	< 25	2930	< 3	43300	728 J	< 0.2	6.4 J	1240 J	< 5	< 5	50400	10 U	< 100	< 7	20 U
	12/14/2012	140 J	< 10	54	210	< 5	< 2	130000	6.4	2.3 J	< 25	3000	< 3	40000	720	< 0.2	6.7 J	1300 J	< 5	< 5	45000	< 10	< 100	2.7 J	50 U
	12/13/2016	160 J	<10	85	200	<5	<2	120000	0.68 J	<7	<25	3700	<5	40000	660	<0.2	4.7 J	1200 J	<15	<5	44000	<10	<100	<10	<50
UAW22-20	10/13/2001	12100	<10	14.3	182 B	0.9 B	0.29 B	283000	22.2	8.5	29.2	41400	12.2	68000	8260	<0.2	56.4	18400 J	<5	<5	661000	<10	NA	24	86.8

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Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
	11/13/2001	14700	<10	15.9	174 B	1.1 B	0.47 B	351000 J	27.1	10.6	34.4	31600	15.4	97200 J	6960 J	<0.2	57.3	16600 J	<5	<5	706000 J	<10	NA	29.6	132 J
	10/20/2002	642 J	<10	22.3	103 B	<5	<2	156000 J	1.8 B	2.2 B	<25	5000	<3	36500	3350	<0.2	28 B	6330 J E	<5	NA	381000	<10	979	7.2	<20
	11/10/2003	478	<10	7.4 B	189 B J	<5	0.41 B	352000 J	3.8 B	1.7 B	3 B	12200	<3	69200 J	10800 J	<0.2	20.8 B	8380 J	<5	<5	996000	<10	529	2.7 B	59.3 J
	3/29/2004	1540 J	<10	5.3 B	182 B	<5	0.38 B	298000	2.8 B	1.6 B	4.8 B J	12900	<3	65400	9640 J	<0.2	11.4 B	9510 J	<5	<5	921000	<10	203	3.6 B	<20
	11/4/2004	128 B J	<10	4.4 B	145 B	<5	0.44 B J	363000	<5	1.8 B J	<25	11600	<3	70000 J	11800 J	<0.2	15.4 B	7910 J	<5	<5	726000	6.3 B	460	1 B	<20
	11/15/2005	410	4.6 B	6.8 B	233	<5	<2	415000 J	3.6 B	<7	3.4 B	11400	2.6 B	75900	13000 J	<0.2	22.6 B	13300	<5	<5	1260000	<10	266	3.7 B	8.5 U
	11/9/2006	4950	< 10	< 10	136 B	0.62 B	3.4	238000 J	13.3	5 B	47.6	15100	8.6	56100	7620 J	<0.2	78.1	11600 J	< 5	< 5	1020000	11.9	117	11.3	65.6 J
	11/16/2007	100 B	< 10	18.9	438	< 5	< 2	296000	2.5 B	< 7	9.8 B	43000	< 3	62200	7330	< 0.2	17.3 B	10600 J	< 5	< 5	662000	< 10	261	< 7	11 B
	11/13/2008	< 200	< 10	< 10	157 B	< 5	< 2	311000 J	< 5	< 7	< 25	9650	< 3	63100 J	7230 J	< 0.2	13.7 B	8450	< 5	< 5	749000	< 10	336	< 7	10.6 B
UAW22-20 Dup	11/13/2008	< 200	2.9 B	5.1 B	166 B	< 5	< 2	310000 J	< 5	< 7	< 25	9620	< 3	64200 J	7140 J	< 0.2	13.6 B	8640	< 5	< 5	771000	< 10	288	0.89 B	12.3 B
	11/11/2009	< 200	< 10	< 10	150 B	< 5	< 2	232000	< 5	< 7	5.7 B	12600	< 3	42500	8110	< 0.2	3.4 B	6930	< 5	< 5	1490000	< 10	198	< 7	13.7 B
	11/15/2010	< 200	< 10	10.7	460 J	< 5	< 2	383000 J	< 5	< 7	8.9 J	26100	< 3	88500	9260 J	< 0.2	5.2 J	11500 J	< 5	< 5	1270000	10 U	422 J	< 7	20 U
UAW22-20 Dup	11/15/2010	< 200	< 10	11.5	443 J	< 5	< 2	370000 J	< 5	< 7	9.5 J	25200	< 3	85300	8970 J	< 0.2	5.7 J	11100 J	< 5	< 5	1250000	10 U	418	< 7	20 UJ
	12/7/2012	720	< 10	5.7 J	48 J	< 5	2.9	110000	3 J	< 7	13 J	4700	< 3	21000	2300	< 0.2	9.5 J	3300 J	< 5	< 5	350000	4.9 J	92 J	1.7 J	50 U
	12/14/2016	2800	5 J	9.8 J	220	0.37 J	6.8	300000	11	2.1 J	29	17000	13	61000	4700	<0.2	16 J	12000	<15	<<5	1600000	<10	320	6.3 J	490
UAW23-20	10/12/2001	117 B	<10	<10	29.6 B	<5	<2	408000	6.9	<7	<25	154	<3	97200	31.5	<0.2	12.8 B	26900 J	6.1	<5	167000	8.9 B J	NA	<7	<20
	11/14/2001	<200	<10	<10	25 B	<5	<2	394000	5.6	6.2 B	<25	1980	<3	90900 J	227	<0.2	296	23200	9.5	<5	169000	11.3	NA	<7	<20
	10/19/2002	128 B J	<10	<10	21.7 B	<5	0.56 B	305000 J	54.2	6.7 B	2.5 B	2860	<3	68000	88.1	<0.2	400	19400 J	20.2	NA	126000	<10	<100	<7	<20
	11/13/2003	<200	<10	3 B	19.9 B J	<5	<2	309000 J	32.4	12.1	<25	3750 J	<3	66900	155 J	<0.2	789	21000 J	12.7	<5	99500	<10	<100	<7	<20
	3/28/2004	771 J	<10	<10	36.9 B	<5	0.79 B	322000	932	3.6 B	25.4 J	8010	<3	71000	89.4 J	<0.2	214	19900 J	18.2	<5	105000	<10	<100	3.7 B	<20
	11/5/2004	<200	<10	<10	25.8 B	<5	<2	358000	35.7	1.3 B	<25	562	<3	75900 J	24.4 J	<0.2	81.4	22400	15.1	<5	116000	<10	<100	<7	<20
	11/14/2005	<200	<10	<10	38.2 B	<5	<2	347000 J	154	6.3 B	2.5 B	3390	<3	78300	106 J	<0.2	447	21800	16.9	<5	159000	<10	<100	<7	<20
	11/6/2006	< 200	< 10	< 10	35.4 B	< 5	< 2	361000 J	209	1.9 B	2.6 B J	3420	< 3	80600	36.3 J	<0.2	86.3	23900 J	18.5	< 5	125000	< 10	11.2 B	< 7	< 20
	11/13/2007	< 200	9.7 B	< 10	28.8 B	< 5	< 2	329000 J	103	2.1 B	< 25	4270	< 3	71600	132	< 0.2	395	23200 J	17.1	< 5	109000	< 10	< 100	< 7	< 20
	11/13/2008	< 200	2.9 B	< 10	26.8 B	< 5	< 2	309000 J	65	< 7	< 25	2800	< 3	65900 J	35.5 J	< 0.2	124	21900	45.5	< 5	104000	< 10	< 100	< 7	7.3 B
	11/24/2009	< 200	< 10	7.9 B	72.5 B	< 5	< 2	312000	671	6.1 B	< 25	10500	< 3	67800	148	< 0.2	310	20100	20	< 5	108000	< 10	< 100	2.9 B	< 20
	11/17/2010	< 200	< 10	5.6 J	45.4 J	< 5	< 2	319000 J	660	12.1	< 25	7930	< 3	73400	269 J	< 0.2	560	22900 J	20.9	< 5	129000	10 U	< 100	3.5 J	20 UJ
	12/10/2012	< 200	< 10	5.8 J	36 J	< 5	< 2	280000	120	5 J	< 25	4900	< 3	64000	180	0.13 J	200	19000	41	< 5	98000	< 10	< 100	< 7	5.4 J
	12/13/2016	<200	<10	<10	47 J	<5	0.32 J	270000	54	<7	<25	7200	<5	65000	79	<0.2	45	23000	30	<5	97000	<10	<100	<10	<50
UAW24-70	10/13/2001	251	<10	<10	213	<5	<2	128000	2.1 B	<7	<25	355	<3	39900	115	<0.2	5.5 B	2150 B J	<5	<5	50500	<10	NA	<7	<20
	11/15/2001	358 J	<10	<10	145 B J	<5	<2	71500 J	4 B	<7	<25	1030	<3	31500	154	<0.2	3.8 B	4220 B J	<5	<5	57200	5 B	NA	<7	<20
	10/17/2002	365	<10	6.7 B	227	<5	<2	83100 J	8.3	1.6 B	<25	1270	<3	37300 J	245 J	<0.2	16.9 B	4950 B J	<5	NA	51100	8.6 B	<100	1.1 B J	<20
	11/16/2003	<200	<10	12	167 B J	<5	1.2 B J	63300 J	6.5 J	2.2 B J	2.2 B J	843	<3	27400 J	162 J	<0.2	13.7 B J	9890 J	<5	2 B	54200	14.7 J	7.8 B	<7	<20
	4/5/2004	<200	<10	11.4	249 J	<5	<2	86300	2.1 B	<7	<25	1310	<3	33600 J	231	<0.2	5.9 B	3100 B J	<5	<5	37400	<10	<100	<7	<20
	11/6/2004	<200	<10	4.5 B	260	<5	<2	106000	<5	<7	<25	998	<3	36100	204 J	<0.2	<40	3180 B J	<5	<5	46600	<10	<100	<7	<20
	11/16/2005	74.3 B	<10	15.4	233	<5	<2	83300	<5	<7	<25	1120	<3	33900	159	<0.2	2.5 B	2410 B J	<5	<5	39100	<10	<100	<7	<20
	10/31/2006	574	< 10	14.4	280	< 5	< 2	102000 J	3.2 B	< 7	3.2 B J	2260	< 3	37000	216 J	<0.2	4.7 B	2190 B J	< 5	< 5	34500	5 B	< 100	< 7	< 20
	11/7/2007	< 200	< 10	< 10	119 B J	< 5	< 2	8270 J	< 5	< 7	< 25	< 100	< 3	2600 B J	< 15	< 0.2	< 40	21100 J	< 5	< 5	124000	< 10	< 100	< 7	< 20
	11/13/2008	229	< 10	13.8	244	< 5	< 2	90700 J	< 5	< 7	< 25	1510	< 3	33700 J	171 J	< 0.2	< 40	1760 B	< 5	< 5	30500	< 10	3.9 B	< 7	5.7 B
	11/24/2009	< 200	< 10	21.6	176 B	< 5	< 2	79800	< 5	< 7	< 25	1140	< 3	32600	95.6	< 0.2	< 40	1760 B	< 5	< 5	34200	< 10	< 100	< 7	< 20
	11/22/2010	< 200	< 10	23.8	201 J	< 5	< 2	82300	< 5	< 7	< 25	1190 J	< 3	33500	105 J	< 0.2	< 40	1900 J	< 5	< 5	33500	< 10	< 100	< 7	17.2 J
	12/13/2012	320	< 10	6.2 J	210	< 5	< 2	84000	3.4 J	< 7	< 25	400	< 3	33000	91	0.2	8.1 J	2000 J	< 5	< 5	38000	< 10	< 100	< 7	< 50
	12/15/2016	<200	<10	<10	180 J	<5	0.72 J	75000	0.75 J	<7	4.5 J	74 J	<5	21000	<15	<0.2	4.9 J	3200 J	<15	<5	77000	<10	22 J	<10	18 J
UAW25-20	10/13/2001	383	<10	26.1	171 B	<5	0.38 B	239000	2.6 B	3 B	11.4 B	3550	<3	43200	1000	<0.2	27.7 B	3530 B J	<5	<5	338000	<10	NA	1.2 B	99.2

Table B-3
Summary of Inorganic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
	11/13/2001	60.2 B	<10	32.4	162 B	<5	<2	223000 J	10.5	2.6 B	9 B	6370	<3	41800 J	914 J	<0.2	97.5	3480 B J	<5	<5	328000 J	<10	NA	5.2 B	<20
	10/18/2002	<200	<10	21.7	186 B	<5	<2	232000 J	7.5	1.5 B	<25	5760	<3	49000 J	1100 J	<0.2	48.3	11800 J	<5	NA	395000	<10	188	<7	<20
	11/12/2003	<200	<10	28.4	250 J	<5	<2	277000 J	43	<7	5.2 B	11100	<3	55000 J	1500 J	<0.2	64.1	6870 J	<5	<5	429000	<10	150	<7	<20
	3/27/2004	246 J	<10	26.6	176 B	<5	<2	199000	505	1.9 B	14.4 B J	10400	<3	40600	1140 J	<0.2	128	6970 J	<5	<5	320000	<10	130	1.4 B	<20
	11/3/2004	<200	<10	14.3	228	<5	<2	277000	6.2	1.4 B	4.8 B	7380	<3	58500	1670	0.06 B	80.8	9500 J	<5	<5	406000	<10	134	<7	<20
	11/9/2005	<200	<10	16.3	330	0.34 B	<2	291000 J	5.5	<7	<25	10000	<3	62900	1880 J	<0.2	38.7 B J	11200 J	<5	<5	484000	<10	140	<7	<20
	11/8/2006	< 200	< 10	57.1	387	< 5	0.87 B	219000 J	281	1.5 B	J	30300	< 3	44700	1400 J	<0.2	77.4	3380 B J	< 5	< 5	391000	< 10	136	< 7	< 20
	11/8/2007	< 200	< 10	22.4	191 B J	< 5	< 2	145000 J	103	< 7	< 25	9250	< 3	27500 J	774 J	< 0.2	13.7 B	2810 B J	< 5	< 5	414000	< 10	156 J	< 7	< 20
	11/3/2008	< 200	1.9 B	93.3	686	< 5	< 2	242000	206	< 7	10.4 B	55000	< 3	48000	1190	< 0.2	19.2 B	16500 J	< 5	< 5	561000	< 10	< 111	2.1 B	6.4 B
	11/12/2009	< 200	< 10	14.7	247	< 5	< 2	266000	11.6	< 7	< 25	8780	< 3	54700	1460	< 0.2	13.4 B	3690 B	< 5	< 5	448000	10 U	129	< 7	< 20
	11/12/2010	< 200	< 10	26.4	203	< 5	< 2	218000	24.3	< 7	5.5 J	10800	< 3	48000	1020	< 0.2	107	6400 J	< 5	< 5	382000	7.3 J	134	< 7	< 20
	11/29/2012	< 200	< 10	22	270	< 5	< 2	210000	36	< 7	< 25	10000	< 3	42000	820	< 0.2	39 J	9400	< 5	< 5	490000	< 10	61 J	< 7	< 50
	12/6/2016	<200	<10	12	180 J	0.24 J	<2	230000	120	<7	<25	6600	<5	41000	590	<0.2	30 J	7800	<15	<5	330000	<10	29 J	<10	<50
UAW26-70	4/6/2004	379 J	<10	5.1 B	443 J	<5	<2	163000	2.8 B	1.4 B	<25	3290	1.7 B	49900 J	363	<0.2	4.1 B	2290 B J	<5	<5	40600	<10	<100	<7	<20
	11/6/2004	<200	<10	8.6 B	266	<5	<2	140000	<5	<7	<25	3180	<3	44300	282 J	<0.2	<40	1610 B J E	<5	<5	35700	<10	<100	<7	<20
	11/9/2005	87.5 B	<10	13.2	295	0.34 B	<2	136000 J	1.7 B	<7	<25	2650	<3	43200	315 J	<0.2	32.2 B J	2570 B J	4.3 B	<5	33800	<10	<100	<7	22.3
	11/7/2006	< 200	< 10	9.5 B	265	< 5	< 2	146000 J	< 5	< 7	< 25	3180	< 3	47600	308 J	<0.2	< 40	1490 B J	< 5	< 5	36700	< 10	< 100	< 7	15.3 B J
	11/14/2007	1140	6.5 B	< 10	47.5 B	< 5	< 2	132000 J	2.8 B	< 7	< 25	1110	< 3	34200	56.8	< 0.2	5.4 B	4660 B J	< 5	< 5	28500	< 10	< 100	2.1 B	11.8 B
	11/6/2008	< 200	2.9 B	< 10	295 J	< 5	< 2	78600 J	< 5	< 7	4.9 B	< 100	< 3	21700 J	< 15	< 0.2	4.2 B	11000	< 5	< 5	100000	< 10	< 100	0.82 B	150
	11/19/2009	131 B	< 10	5.9 B	245	< 5	< 2	133000	< 5	< 7	< 25	3190	< 3	43800	279	< 0.2	< 40	1530 B	< 5	< 5	30800	< 10	< 100	< 7	20 U
	11/17/2010	< 200	4.3 J	9.8 J	255 J	< 5	< 2	141000 J	< 5	< 7	< 25	3220	< 3	46400	295 J	< 0.2	< 40	1650 J	< 5	< 5	32500	10 U	< 100	< 7	20 UJ
	12/3/2012	< 200	< 10	12	240	< 5	< 2	140000	< 5	< 7	< 25	3300	< 3	44000	280	< 0.2	< 40	1600 J	< 5	< 5	28000	< 10	< 100	< 7	< 50
	12/8/2016	<200	<10	13	260	<5	<2	130000	2 J	<7	<25	3100	2.5 J	43000	280	<0.2	1.6 J	3100	<15	<5	28000	<10	<100	<10	<50
UAW27-50	3/31/2004	40.7 B	<10	<10	138 B	<5	<2	236000 J	5.5	1.5 B	<25	291	<3	67800 J	124 J	<0.2	33.2 B	2120 B J	<5	<5	37600	<10	<100	<7	<20
	11/5/2004	169 B	<10	<10	104 B	<5	<2	199000	4.8 B	<7	2.8 B	85.3 B	<3	56900	25.9 J	<0.2	8.4 B	2220 B J	<5	<5	32800	<10	<100	<7	<20
	11/11/2005	<200	<10	<10	93.6 B	<5	<2	187000 J	<5	<7	<25	<100	<3	57200	16.2 J	<0.2	6.0 B	1960 B	<5	<5	31600	<10	<100	<7	<20
	11/1/2006	< 200	< 10	< 10	99 B	< 5	< 2	160000 J	2.4 B	< 7	2.6 B J	98.3 B	< 3	44800	17.8 J	<0.2	38.2 B	1880 B J	< 5	< 5	27900	< 10	9.7 B	< 7	10.3 B J
	11/13/2007	251	< 10	< 10	91.4 B	< 5	< 2	179000 J	34.3	< 7	< 25	1370	< 3	50900	42.5	< 0.2	65.8	1940 B J	< 5	< 5	30400	< 10	< 100	< 7	10.2 B
	11/13/2008	< 200	3 B	< 10	48.7 B	< 5	< 2	208000 J	< 5	< 7	< 25	< 100	< 3	60600 J	26.1 J	< 0.2	< 40	1730 B	< 5	< 5	37900	< 10	< 100	< 7	< 20
	11/11/2009	< 200	< 10	< 10	46.3 B	< 5	< 2	200000	< 5	< 7	< 25	< 100	< 3	58100	26	< 0.2	< 40	1620 B	< 5	< 5	37200	< 10	< 100	< 7	< 20
	11/22/2010	< 200	< 10	< 10	46.7 J	0.51 J	< 2	200000	< 5	< 7	< 25	< 100	< 3	60700	24 J	< 0.2	< 40	1870 J	< 5	< 5	38800	< 10	< 100	< 7	6.7 J
	12/14/2012	< 200	< 10	< 10	43 J	< 5	< 2	190000	< 5	< 7	< 25	< 100	< 3	57000	27	< 0.2	3.4 J	1600 J	< 5	< 5	35000	< 10	< 100	< 7	< 50
	12/15/2016	<200	<10	<10	41 J	0.29 J	<2	170000	3.7 J	<7	<25	78 J	<5	52000	33	<0.2	4.4 J	1500 J	<15	<5	40000	<10	<100	<10	<50
LAW05-60	3/16/2002	NA	<10	<10	87.5 B	<5	<2	NA	1.6 B	3.2 B	<25	NA	<3	NA	NA	<0.2	18.7 B	NA	5.3	<5	NA	<10	<100	2 B	41.2
	11/17/2009	1210	< 10	5.5 B	135 B	< 5	< 2	119000	3.3 B	< 7	< 25	1840	4.3	34300	1000	< 0.2	6 B	2420 B	< 5	< 5	43600	< 10	17.2 B	1.3 B	27.2 U
LAW05-150	3/16/2002	NA	<10	6.2 B	94.3 B	0.55 B	<2	NA	<5	<7	<25	NA	<3	NA	NA	0.35	<40	NA	<5	<5	NA	<10	<100	<7	<20
LAW05-150 Dup	3/16/2002	NA	<10	4.6 B	94.7 B	<5	<2	NA	<5	<7	<25	NA	<3	NA	NA	0.16 B	<40	NA	<5	<5	NA	<10	<100	<7	59.6
	11/17/2009	1570	< 10	4.5 B	65.8 B	< 5	1.4 B	32400	13.2	< 7	7.6 B	2510	2.7 B	1460 B	69.9	< 0.2	< 40	6270	< 5	< 5	56400	< 10	27.2 B	5.8 B	40.1 U
LAW12-60	10/13/2001	NA	<10	<10	113 B	<5	<2	133000	6.9	2.5 B	<25	888	<3	41200	NA	<0.2	14.2 B	10000 J	<5	<5	61300	5.5 B	<100	2 B	<20
	11/16/2001	NA	<10	<10	127 B J	<5	<2	120000 J	4.1 B	<7	10.7 B	374	<3	46200	NA	<0.2	5.8 B	11100 J	<5	<5	54900	<10	<100	<7	<20
	11/19/2009	123 B	< 10	< 10	67.2 B	< 5	1.8 B	64400	< 5	< 7	< 25	460	< 3	24800	429	< 0.2	3.5 B	17200	< 5	< 5	218000	< 10	9.5 B	2.5 B	20 U
20061102CINEB-1	11/2/2006	< 200	< 10	< 10	< 200	< 5	< 2	132 B J	< 5	< 7	< 25	< 100	< 3	< 5000	0.28 B J	<0.2	< 40	158 B J	< 5	< 5	< 5000	< 10	7.3 B	< 7	< 20

Table B-3
Summary of Inorganic Detections in Groundwater Samples
Rohm and Haas Chemicals LLC
Former Cincinnati Plant
Units: ug/l

Sample Location	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Tin	Vanadium	Zinc
Groundwater																									
20061106CINEB-1	11/6/2006	< 200	< 10	< 10	< 200	< 5	< 2	222 B J	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	<0.2	< 40	162 B J	< 5	< 5	< 5000	< 10	5.3 B	< 7	< 20
20061106CINFB-1	11/6/2006	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	0.53 B J	<0.2	< 40	157 B J	< 5	< 5	< 5000	< 10	< 100	< 7	< 20
20061108CINFB-1	11/8/2006	< 200	< 10	< 10	< 200	< 5	< 2	83.4 B J	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	<0.2	< 40	157 B J	< 5	< 5	< 5000	5.1 B	< 100	< 7	< 20
20071107CINEB-1	11/7/2007	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	< 0.2	< 40	<5000	< 5	< 5	< 5000	< 10	< 100	< 7	< 20
20071107CINFB-1	11/7/2007	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	< 0.2	< 40	<5000	< 5	< 5	< 5000	< 10	< 100	< 7	< 20
20071115CINEB-2	11/15/2007	< 200	2.4 B	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	< 0.2	< 40	159 B J	< 5	< 5	< 5000	< 10	< 100	< 7	< 20
20071115CINFB-2	11/15/2007	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	< 0.2	< 40	160 B J	< 5	< 5	< 5000	< 10	< 100	< 7	< 20
20081104CINEB-1	11/4/2008	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	< 0.2	< 40	139 B J	< 5	< 5	< 5000	< 10	45.9 B	< 7	5.6 B
20081113CINFB-1	11/13/2008	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	0.93 B J	< 0.2	< 40	< 5000	< 5	< 5	< 5000	7.1 B	< 100	< 7	< 20
20081114CINEB-1	11/14/2008	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	< 0.2	< 40	167 B J	< 5	< 5	< 5000	< 10	8.2 B	< 7	< 20
20081118CINEB-1	11/18/2008	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	< 0.2	< 40	171 B J	< 5	< 5	< 5000	< 10	< 100	< 7	< 20
20091113TB-1	11/13/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
20091117CINEB-1	11/17/2009	< 200	< 10	< 10	< 200	< 5	< 2	5000 U	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	< 0.2	< 40	5000 U	< 5	< 5	< 5000	< 10	< 100	< 7	20 U
20091117TB-1	11/17/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
20091120CINFB-1	11/20/2009	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	< 0.2	< 40	< 5000	< 5	< 5	< 5000	< 10	< 100	< 7	< 20
20091120TB-1	11/20/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
20091123CINEB-1	11/23/2009	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	< 0.2	< 40	5000 U	< 5	< 5	< 5000	< 10	< 100	< 7	< 20
20091124TB-1	11/24/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
20101118CINEQBLK-1	11/18/2010	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	< 0.2	< 40	129 UJ	< 5	< 5	< 5000	< 10	< 100	< 7	< 20
20101129CINFB-1	11/29/2010	< 200	< 10	< 10	< 200	< 5	< 2	152 J	< 5	< 7	< 25	< 100	< 3	< 5000	< 15	< 0.2	< 40	122 J	< 5	< 5	< 5000	< 10	4.7 J	< 7	< 20
20101130CINEQBLK-2	11/30/2010	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	0.82 J	< 0.2	< 40	5000 U	< 5	< 5	< 5000	5.8 J	< 100	< 7	< 20
20121207CINEQBLK	12/7/2012	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	0.83 J	< 0.2	< 40	140 J	< 5	< 5	< 5000	< 10	< 100	< 7	< 50
20121207CINFB-1	12/7/2012	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	< 100	< 3	< 5000	0.49 J	< 0.2	< 40	88 J	< 5	< 5	< 5000	< 10	< 100	< 7	< 50
20121213CINRB-2	12/13/2012	< 200	< 10	< 10	< 200	< 5	< 2	< 5000	< 5	< 7	< 25	150	< 3	< 5000	2.4 J	0.2	< 40	< 5000	< 5	< 5	< 5000	< 10	9.5 J	< 7	< 50
20161202CINFB-1	12/2/2016	<200	<10	<10	<200	<5	<2	<5000	<5	<7	<25	<100	<15	<5000	<15	<0.2	<40	<5000	<15	<5	<5000	<10	<100	<10	<50
20161213CINRB-1	12/13/2016	96 J	<10	<10	7.2 J	<5	<2	820 J	1.3 J	<7	8.4 J	50 J	<5	<5000	<15	<0.2	<40	<5000	<15	<5	1900 J	<10	10 J	<10	<50
20161215CINRB-2	12/15/2016	120 J	<10	<10	7.7 J	<5	<2	800 J	0.64 J	<7	9 J	54 J	<5	<5000	<15	<0.2	<40	<5000	<15	<5	1500 J	<10	6.4 J	5.4 J	<50

Notes:
B = Estimated result; result is less than reporting limit
E = Matrix interference
J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.
U = constituent not detected at or above the indicated detection limit.
L = Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.
MBB = This analyte is present at a reportable level in the associated method blank but is less than 5% of the sample amount.
MBD = This analyte is present in the associated method blank at an amount that is less than two times the reporting limit.
MBE = This analyte is present in the associated method blank.
NA indicates chemical was not on the target analyte list for that sample.
<5 = Indicates constituent not detected at or above indicated detection limit.
Metals bottles for the 2009 field duplicate from UAW10-50 and the field blank collected on 11-20-2009 were suspected to be switched in error. Corrected results are presented.

Appendix C

Laboratory Analytical Results – Electronic Data Deliverable (EDD)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-72811-1
Client Project/Site: R & H Cincinnati - GW Sampling

For:
Parsons Corporation
2443 Crowne Point Drive
Cincinnati, Ohio 45241

Attn: Karen Fields

Patrick O'Meara

Authorized for release by:
12/13/2016 12:47:16 PM

Patrick O'Meara, Manager of Project Management
(330)966-5725
patrick.omeara@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

RELEASED
DATE 6-28-17
RIN #2017-007322
INITIALS

CASE NARRATIVE

Client: Parsons Corporation

Project: R & H Cincinnati - GW Sampling

Report Number: 240-72811-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/3/2016 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.2° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 20161202UAW09-60V54N (240-72811-1), 20161202CINFB-1 (240-72811-2) and TRIP BLANKS (240-72811-3) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/12/2016.

Methylene Chloride was detected in method blank MB 240-259041/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 20161202UAW09-60V54N (240-72811-1) and 20161202CINFB-1 (240-72811-2) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/05/2016 and analyzed on 12/08/2016.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Job ID: 240-72811-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Di-n-butyl phthalate was detected in method blank MB 240-258082/5-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Benzaldehyde and Pentachlorophenol exceeded the RPD limit for the MSD of sample 20161202UAW09-60V54N (240-72811-1) in batch 240-258558.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICP)

Samples 20161202UAW09-60V54N (240-72811-1) and 20161202CINFB-1 (240-72811-2) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/05/2016 and analyzed on 12/06/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples 20161202UAW09-60V54N (240-72811-1) and 20161202CINFB-1 (240-72811-2) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/05/2016 and analyzed on 12/06/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72811-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72811-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-72811-1	20161202UAW09-60V54N	Water	12/02/16 13:33	12/03/16 08:00
240-72811-2	20161202CINFB-1	Water	12/02/16 14:30	12/03/16 08:00
240-72811-3	TRIP BLANKS	Water	12/02/16 00:00	12/03/16 08:00

Detection Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72811-1

Client Sample ID: 20161202UAW09-60V54N — Lab Sample ID: 240-72811-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caprolactam	2.2	J	4.8	0.36	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	0.51	J B	0.96	0.38	ug/L	1		8270C	Total/NA
Barium	190	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	100000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	1.5	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Potassium	1100	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	36000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	93		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	14000		5000	330	ug/L	1		6010B	Total Recoverable
Nickel	1.8	J	40	1.6	ug/L	1		6010B	Total Recoverable
Arsenic	8.0	J	10	3.3	ug/L	1		6010B	Total Recoverable
Lead	2.5	J	5.0	1.9	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161202CINFB-1 — Lab Sample ID: 240-72811-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.43	J	1.0	0.23	ug/L	1		8260B	Total/NA
Di-n-butyl phthalate	0.51	J B	1.0	0.40	ug/L	1		8270C	Total/NA

Client Sample ID: TRIP BLANKS — Lab Sample ID: 240-72811-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.42	J	1.0	0.32	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72811-1

Client Sample ID: 20161202UAW09-60V54N
Date Collected: 12/02/16 13:33
Date Received: 12/03/16 08:00

Lab Sample ID: 240-72811-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/12/16 13:38	1
Benzene	1.0	U	1.0	0.28	ug/L			12/12/16 13:38	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/12/16 13:38	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/12/16 13:38	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/12/16 13:38	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/12/16 13:38	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/12/16 13:38	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/12/16 13:38	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/12/16 13:38	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/12/16 13:38	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/12/16 13:38	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/12/16 13:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/12/16 13:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/12/16 13:38	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/12/16 13:38	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/12/16 13:38	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/12/16 13:38	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/12/16 13:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/12/16 13:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/12/16 13:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/12/16 13:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/12/16 13:38	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/12/16 13:38	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/12/16 13:38	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/12/16 13:38	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/12/16 13:38	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/12/16 13:38	1
2-Hexanone	10	U	10	1.2	ug/L			12/12/16 13:38	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/12/16 13:38	1
Methyl acetate	10	U	10	1.4	ug/L			12/12/16 13:38	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/12/16 13:38	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/12/16 13:38	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/12/16 13:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/12/16 13:38	1
Styrene	1.0	U	1.0	0.23	ug/L			12/12/16 13:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/12/16 13:38	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/12/16 13:38	1
Toluene	1.0	U	1.0	0.23	ug/L			12/12/16 13:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/12/16 13:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/12/16 13:38	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/12/16 13:38	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/12/16 13:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/12/16 13:38	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/12/16 13:38	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/12/16 13:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/12/16 13:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/12/16 13:38	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/12/16 13:38	1

Client Sample ID: 20161202UAW09-60V54N
Date Collected: 12/02/16 13:33
Date Received: 12/03/16 08:00

Lab Sample ID: 240-72811-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*12/12/16 13:38*	*1*
Dibromofluoromethane (Surr)	*84*		*80 - 120*		*12/12/16 13:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*63 - 132*		*12/12/16 13:38*	*1*
Toluene-d8 (Surr)	*82*		*73 - 124*		*12/12/16 13:38*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.042	ug/L		12/05/16 10:38	12/08/16 08:38	1
Acenaphthylene	0.19	U	0.19	0.019	ug/L		12/05/16 10:38	12/08/16 08:38	1
Acetophenone	0.96	U	0.96	0.13	ug/L		12/05/16 10:38	12/08/16 08:38	1
Aniline	4.8	U	4.8	0.21	ug/L		12/05/16 10:38	12/08/16 08:38	1
Anthracene	0.19	U	0.19	0.030	ug/L		12/05/16 10:38	12/08/16 08:38	1
Atrazine	1.9	U	1.9	0.11	ug/L		12/05/16 10:38	12/08/16 08:38	1
Benzaldehyde	1.9	U F2	1.9	0.28	ug/L		12/05/16 10:38	12/08/16 08:38	1
Benzo[a]anthracene	0.19	U	0.19	0.057	ug/L		12/05/16 10:38	12/08/16 08:38	1
Benzo[b]fluoranthene	0.19	U	0.19	0.057	ug/L		12/05/16 10:38	12/08/16 08:38	1
Benzo[k]fluoranthene	0.19	U	0.19	0.046	ug/L		12/05/16 10:38	12/08/16 08:38	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.048	ug/L		12/05/16 10:38	12/08/16 08:38	1
Benzo[a]pyrene	0.19	U	0.19	0.029	ug/L		12/05/16 10:38	12/08/16 08:38	1
Butyl benzyl phthalate	0.96	U	0.96	0.21	ug/L		12/05/16 10:38	12/08/16 08:38	1
1,1'-Biphenyl	0.96	U	0.96	0.12	ug/L		12/05/16 10:38	12/08/16 08:38	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.036	ug/L		12/05/16 10:38	12/08/16 08:38	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.18	ug/L		12/05/16 10:38	12/08/16 08:38	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	1.5	ug/L		12/05/16 10:38	12/08/16 08:38	1
4-Bromophenyl phenyl ether	1.9	U	1.9	0.33	ug/L		12/05/16 10:38	12/08/16 08:38	1
Caprolactam	**2.2**	**J**	4.8	0.36	ug/L		12/05/16 10:38	12/08/16 08:38	1
Carbazole	0.96	U	0.96	0.10	ug/L		12/05/16 10:38	12/08/16 08:38	1
4-Chloroaniline	1.9	U	1.9	0.14	ug/L		12/05/16 10:38	12/08/16 08:38	1
4-Chloro-3-methylphenol	1.9	U	1.9	0.27	ug/L		12/05/16 10:38	12/08/16 08:38	1
2-Chloronaphthalene	0.96	U	0.96	0.11	ug/L		12/05/16 10:38	12/08/16 08:38	1
2-Chlorophenol	0.96	U	0.96	0.13	ug/L		12/05/16 10:38	12/08/16 08:38	1
4-Chlorophenyl phenyl ether	1.9	U	1.9	0.28	ug/L		12/05/16 10:38	12/08/16 08:38	1
Chrysene	0.19	U	0.19	0.034	ug/L		12/05/16 10:38	12/08/16 08:38	1
2-Methylnaphthalene	0.19	U	0.19	0.036	ug/L		12/05/16 10:38	12/08/16 08:38	1
3 & 4 Methylphenol	1.9	U	1.9	0.32	ug/L		12/05/16 10:38	12/08/16 08:38	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.038	ug/L		12/05/16 10:38	12/08/16 08:38	1
Dibenzofuran	0.96	U	0.96	0.13	ug/L		12/05/16 10:38	12/08/16 08:38	1
3,3'-Dichlorobenzidine	4.8	U	4.8	0.34	ug/L		12/05/16 10:38	12/08/16 08:38	1
2,4-Dichlorophenol	1.9	U	1.9	0.28	ug/L		12/05/16 10:38	12/08/16 08:38	1
Diethyl phthalate	0.96	U	0.96	0.12	ug/L		12/05/16 10:38	12/08/16 08:38	1
2,4-Dimethylphenol	1.9	U	1.9	0.30	ug/L		12/05/16 10:38	12/08/16 08:38	1
Dimethyl phthalate	0.96	U	0.96	0.097	ug/L		12/05/16 10:38	12/08/16 08:38	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.50	ug/L		12/05/16 10:38	12/08/16 08:38	1
2,4-Dinitrophenol	38	U	38	5.9	ug/L		12/05/16 10:38	12/08/16 08:38	1
2,4-Dinitrotoluene	4.8	U	4.8	0.25	ug/L		12/05/16 10:38	12/08/16 08:38	1
Di-n-butyl phthalate	**0.51**	**J B**	0.96	0.38	ug/L		12/05/16 10:38	12/08/16 08:38	1
Di-n-octyl phthalate	0.96	U	0.96	0.35	ug/L		12/05/16 10:38	12/08/16 08:38	1
Fluoranthene	0.19	U	0.19	0.026	ug/L		12/05/16 10:38	12/08/16 08:38	1
Fluorene	0.19	U	0.19	0.033	ug/L		12/05/16 10:38	12/08/16 08:38	1
Hexachlorobenzene	0.96	U	0.96	0.11	ug/L		12/05/16 10:38	12/08/16 08:38	1

Client Sample ID: 20161202UAW09-60V54N
Date Collected: 12/02/16 13:33
Date Received: 12/03/16 08:00

Lab Sample ID: 240-72811-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.96	U	0.96	0.14	ug/L		12/05/16 10:38	12/08/16 08:38	1
Hexachlorocyclopentadiene	9.6	U	9.6	2.4	ug/L		12/05/16 10:38	12/08/16 08:38	1
Hexachloroethane	0.96	U	0.96	0.21	ug/L		12/05/16 10:38	12/08/16 08:38	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.046	ug/L		12/05/16 10:38	12/08/16 08:38	1
Isophorone	0.96	U	0.96	0.040	ug/L		12/05/16 10:38	12/08/16 08:38	1
2-Methylphenol	0.96	U	0.96	0.18	ug/L		12/05/16 10:38	12/08/16 08:38	1
Naphthalene	0.19	U	0.19	0.041	ug/L		12/05/16 10:38	12/08/16 08:38	1
2-Nitroaniline	1.9	U	1.9	0.30	ug/L		12/05/16 10:38	12/08/16 08:38	1
3-Nitroaniline	1.9	U	1.9	0.25	ug/L		12/05/16 10:38	12/08/16 08:38	1
4-Nitroaniline	1.9	U	1.9	0.23	ug/L		12/05/16 10:38	12/08/16 08:38	1
Nitrobenzene	0.96	U	0.96	0.11	ug/L		12/05/16 10:38	12/08/16 08:38	1
2-Nitrophenol	1.9	U	1.9	0.20	ug/L		12/05/16 10:38	12/08/16 08:38	1
4-Nitrophenol	4.8	U	4.8	0.56	ug/L		12/05/16 10:38	12/08/16 08:38	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.11	ug/L		12/05/16 10:38	12/08/16 08:38	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.15	ug/L		12/05/16 10:38	12/08/16 08:38	1
2,2'-oxybis(1-chloropropane)	0.96	U	0.96	0.18	ug/L		12/05/16 10:38	12/08/16 08:38	1
Pentachlorophenol	38	U F2	38	5.3	ug/L		12/05/16 10:38	12/08/16 08:38	1
Phenanthrene	0.19	U	0.19	0.030	ug/L		12/05/16 10:38	12/08/16 08:38	1
Phenol	0.96	U	0.96	0.14	ug/L		12/05/16 10:38	12/08/16 08:38	1
Pyrene	0.19	U	0.19	0.027	ug/L		12/05/16 10:38	12/08/16 08:38	1
2,4,5-Trichlorophenol	4.8	U	4.8	0.35	ug/L		12/05/16 10:38	12/08/16 08:38	1
2,4,6-Trichlorophenol	4.8	U	4.8	0.25	ug/L		12/05/16 10:38	12/08/16 08:38	1
2,6-Dinitrotoluene	4.8	U	4.8	0.23	ug/L		12/05/16 10:38	12/08/16 08:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*44 - 120*	*12/05/16 10:38*	*12/08/16 08:38*	*1*
2-Fluorophenol (Surr)	*60*		*26 - 120*	*12/05/16 10:38*	*12/08/16 08:38*	*1*
2,4,6-Tribromophenol (Surr)	*52*		*36 - 120*	*12/05/16 10:38*	*12/08/16 08:38*	*1*
Nitrobenzene-d5 (Surr)	*62*		*44 - 120*	*12/05/16 10:38*	*12/08/16 08:38*	*1*
Phenol-d5 (Surr)	*45*		*16 - 120*	*12/05/16 10:38*	*12/08/16 08:38*	*1*
Terphenyl-d14 (Surr)	*78*		*43 - 120*	*12/05/16 10:38*	*12/08/16 08:38*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/05/16 14:00	12/06/16 09:39	1
Antimony	10	U	10	3.1	ug/L		12/05/16 14:00	12/06/16 09:39	1
Barium	**190**	**J**	200	2.4	ug/L		12/05/16 14:00	12/06/16 09:39	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/05/16 14:00	12/06/16 09:39	1
Calcium	**100000**		5000	710	ug/L		12/05/16 14:00	12/06/16 09:39	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/05/16 14:00	12/06/16 09:39	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/05/16 14:00	12/06/16 09:39	1
Chromium	**1.5**	**J**	5.0	0.55	ug/L		12/05/16 14:00	12/06/16 09:39	1
Copper	25	U	25	3.9	ug/L		12/05/16 14:00	12/06/16 09:39	1
Iron	100	U	100	25	ug/L		12/05/16 14:00	12/06/16 09:39	1
Potassium	**1100**	**J**	5000	70	ug/L		12/05/16 14:00	12/06/16 09:39	1
Magnesium	**36000**		5000	230	ug/L		12/05/16 14:00	12/06/16 09:39	1
Manganese	**93**		15	5.1	ug/L		12/05/16 14:00	12/06/16 09:39	1
Silver	5.0	U	5.0	0.92	ug/L		12/05/16 14:00	12/06/16 09:39	1
Sodium	**14000**		5000	330	ug/L		12/05/16 14:00	12/06/16 09:39	1
Nickel	**1.8**	**J**	40	1.6	ug/L		12/05/16 14:00	12/06/16 09:39	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72811-1

Client Sample ID: 20161202UAW09-60V54N
Date Collected: 12/02/16 13:33
Date Received: 12/03/16 08:00

Lab Sample ID: 240-72811-1
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/05/16 14:00	12/06/16 09:39	1
Zinc	50	U	50	16	ug/L		12/05/16 14:00	12/06/16 09:39	1
Arsenic	**8.0**	**J**	10	3.3	ug/L		12/05/16 14:00	12/06/16 09:39	1
Lead	**2.5**	**J**	5.0	1.9	ug/L		12/05/16 14:00	12/06/16 09:39	1
Selenium	15	U	15	5.1	ug/L		12/05/16 14:00	12/06/16 09:39	1
Thallium	10	U	10	2.1	ug/L		12/05/16 14:00	12/06/16 09:39	1
Tin	100	U	100	1.8	ug/L		12/05/16 14:00	12/06/16 09:39	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/05/16 14:00	12/06/16 08:32	1

Client Sample ID: 20161202CINFB-1
Date Collected: 12/02/16 14:30
Date Received: 12/03/16 08:00

Lab Sample ID: 240-72811-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/12/16 14:01	1
Benzene	1.0	U	1.0	0.28	ug/L			12/12/16 14:01	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/12/16 14:01	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/12/16 14:01	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/12/16 14:01	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/12/16 14:01	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/12/16 14:01	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/12/16 14:01	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/12/16 14:01	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/12/16 14:01	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/12/16 14:01	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/12/16 14:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/12/16 14:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/12/16 14:01	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/12/16 14:01	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/12/16 14:01	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/12/16 14:01	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/12/16 14:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/12/16 14:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/12/16 14:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/12/16 14:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/12/16 14:01	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/12/16 14:01	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/12/16 14:01	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/12/16 14:01	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/12/16 14:01	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/12/16 14:01	1
2-Hexanone	10	U	10	1.2	ug/L			12/12/16 14:01	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/12/16 14:01	1
Methyl acetate	10	U	10	1.4	ug/L			12/12/16 14:01	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/12/16 14:01	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/12/16 14:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/12/16 14:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/12/16 14:01	1
Styrene	1.0	U	1.0	0.23	ug/L			12/12/16 14:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/12/16 14:01	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/12/16 14:01	1
Toluene	**0.43**	**J**	1.0	0.23	ug/L			12/12/16 14:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/12/16 14:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/12/16 14:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/12/16 14:01	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/12/16 14:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/12/16 14:01	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/12/16 14:01	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/12/16 14:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/12/16 14:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/12/16 14:01	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/12/16 14:01	1

Client Sample ID: 20161202CINFB-1
Date Collected: 12/02/16 14:30
Date Received: 12/03/16 08:00

Lab Sample ID: 240-72811-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*12/12/16 14:01*	*1*
Dibromofluoromethane (Surr)	*85*		*80 - 120*		*12/12/16 14:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 132*		*12/12/16 14:01*	*1*
Toluene-d8 (Surr)	*83*		*73 - 124*		*12/12/16 14:01*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/05/16 10:38	12/08/16 09:51	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/05/16 10:38	12/08/16 09:51	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/05/16 10:38	12/08/16 09:51	1
Aniline	5.0	U	5.0	0.22	ug/L		12/05/16 10:38	12/08/16 09:51	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/05/16 10:38	12/08/16 09:51	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/05/16 10:38	12/08/16 09:51	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/05/16 10:38	12/08/16 09:51	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/05/16 10:38	12/08/16 09:51	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/05/16 10:38	12/08/16 09:51	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/05/16 10:38	12/08/16 09:51	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/05/16 10:38	12/08/16 09:51	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/05/16 10:38	12/08/16 09:51	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/05/16 10:38	12/08/16 09:51	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/05/16 10:38	12/08/16 09:51	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/05/16 10:38	12/08/16 09:51	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/05/16 10:38	12/08/16 09:51	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/05/16 10:38	12/08/16 09:51	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/05/16 10:38	12/08/16 09:51	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/05/16 10:38	12/08/16 09:51	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/05/16 10:38	12/08/16 09:51	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/05/16 10:38	12/08/16 09:51	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/05/16 10:38	12/08/16 09:51	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/05/16 10:38	12/08/16 09:51	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/05/16 10:38	12/08/16 09:51	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/05/16 10:38	12/08/16 09:51	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/05/16 10:38	12/08/16 09:51	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/05/16 10:38	12/08/16 09:51	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/05/16 10:38	12/08/16 09:51	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/05/16 10:38	12/08/16 09:51	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/05/16 10:38	12/08/16 09:51	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/05/16 10:38	12/08/16 09:51	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/05/16 10:38	12/08/16 09:51	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/05/16 10:38	12/08/16 09:51	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/05/16 10:38	12/08/16 09:51	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/05/16 10:38	12/08/16 09:51	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/05/16 10:38	12/08/16 09:51	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/05/16 10:38	12/08/16 09:51	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/05/16 10:38	12/08/16 09:51	1
Di-n-butyl phthalate	**0.51**	**J B**	1.0	0.40	ug/L		12/05/16 10:38	12/08/16 09:51	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/05/16 10:38	12/08/16 09:51	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/05/16 10:38	12/08/16 09:51	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/05/16 10:38	12/08/16 09:51	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/05/16 10:38	12/08/16 09:51	1

Client Sample ID: 20161202CINFB-1
Date Collected: 12/02/16 14:30
Date Received: 12/03/16 08:00

Lab Sample ID: 240-72811-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/05/16 10:38	12/08/16 09:51	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/05/16 10:38	12/08/16 09:51	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/05/16 10:38	12/08/16 09:51	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/05/16 10:38	12/08/16 09:51	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/05/16 10:38	12/08/16 09:51	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/05/16 10:38	12/08/16 09:51	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/05/16 10:38	12/08/16 09:51	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/05/16 10:38	12/08/16 09:51	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/05/16 10:38	12/08/16 09:51	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/05/16 10:38	12/08/16 09:51	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/05/16 10:38	12/08/16 09:51	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/05/16 10:38	12/08/16 09:51	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/05/16 10:38	12/08/16 09:51	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/05/16 10:38	12/08/16 09:51	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/05/16 10:38	12/08/16 09:51	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/05/16 10:38	12/08/16 09:51	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/05/16 10:38	12/08/16 09:51	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/05/16 10:38	12/08/16 09:51	1
Phenol	1.0	U	1.0	0.15	ug/L		12/05/16 10:38	12/08/16 09:51	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/05/16 10:38	12/08/16 09:51	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/05/16 10:38	12/08/16 09:51	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/05/16 10:38	12/08/16 09:51	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/05/16 10:38	12/08/16 09:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*44 - 120*	*12/05/16 10:38*	*12/08/16 09:51*	*1*
2-Fluorophenol (Surr)	*50*		*26 - 120*	*12/05/16 10:38*	*12/08/16 09:51*	*1*
2,4,6-Tribromophenol (Surr)	*50*		*36 - 120*	*12/05/16 10:38*	*12/08/16 09:51*	*1*
Nitrobenzene-d5 (Surr)	*56*		*44 - 120*	*12/05/16 10:38*	*12/08/16 09:51*	*1*
Phenol-d5 (Surr)	*40*		*16 - 120*	*12/05/16 10:38*	*12/08/16 09:51*	*1*
Terphenyl-d14 (Surr)	*70*		*43 - 120*	*12/05/16 10:38*	*12/08/16 09:51*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/05/16 14:00	12/06/16 21:38	1
Antimony	10	U	10	3.1	ug/L		12/05/16 14:00	12/06/16 21:38	1
Barium	200	U	200	2.4	ug/L		12/05/16 14:00	12/06/16 21:38	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/05/16 14:00	12/06/16 21:38	1
Calcium	5000	U	5000	710	ug/L		12/05/16 14:00	12/06/16 21:38	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/05/16 14:00	12/06/16 21:38	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/05/16 14:00	12/06/16 21:38	1
Chromium	5.0	U	5.0	0.55	ug/L		12/05/16 14:00	12/06/16 21:38	1
Copper	25	U	25	3.9	ug/L		12/05/16 14:00	12/06/16 21:38	1
Iron	100	U	100	25	ug/L		12/05/16 14:00	12/06/16 21:38	1
Potassium	5000	U	5000	70	ug/L		12/05/16 14:00	12/06/16 21:38	1
Magnesium	5000	U	5000	230	ug/L		12/05/16 14:00	12/06/16 21:38	1
Manganese	15	U	15	5.1	ug/L		12/05/16 14:00	12/06/16 21:38	1
Silver	5.0	U	5.0	0.92	ug/L		12/05/16 14:00	12/06/16 21:38	1
Sodium	5000	U	5000	330	ug/L		12/05/16 14:00	12/06/16 21:38	1
Nickel	40	U	40	1.6	ug/L		12/05/16 14:00	12/06/16 21:38	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72811-1

Client Sample ID: 20161202CINFB-1
Date Collected: 12/02/16 14:30
Date Received: 12/03/16 08:00

Lab Sample ID: 240-72811-2
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/05/16 14:00	12/06/16 21:38	1
Zinc	50	U	50	16	ug/L		12/05/16 14:00	12/06/16 21:38	1
Arsenic	10	U	10	3.3	ug/L		12/05/16 14:00	12/06/16 21:38	1
Lead	5.0	U	5.0	1.9	ug/L		12/05/16 14:00	12/06/16 21:38	1
Selenium	15	U	15	5.1	ug/L		12/05/16 14:00	12/06/16 21:38	1
Thallium	10	U	10	2.1	ug/L		12/05/16 14:00	12/06/16 21:38	1
Tin	100	U	100	1.8	ug/L		12/05/16 14:00	12/06/16 21:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/05/16 14:00	12/06/16 09:16	1

Client Sample ID: TRIP BLANKS

Date Collected: 12/02/16 00:00
Date Received: 12/03/16 08:00

Lab Sample ID: 240-72811-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/12/16 14:23	1
Benzene	1.0	U	1.0	0.28	ug/L			12/12/16 14:23	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/12/16 14:23	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/12/16 14:23	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/12/16 14:23	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/12/16 14:23	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/12/16 14:23	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/12/16 14:23	1
Chlorobenzene	**0.42**	**J**	1.0	0.32	ug/L			12/12/16 14:23	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/12/16 14:23	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/12/16 14:23	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/12/16 14:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/12/16 14:23	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/12/16 14:23	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/12/16 14:23	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/12/16 14:23	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/12/16 14:23	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/12/16 14:23	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/12/16 14:23	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/12/16 14:23	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/12/16 14:23	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/12/16 14:23	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/12/16 14:23	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/12/16 14:23	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/12/16 14:23	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/12/16 14:23	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/12/16 14:23	1
2-Hexanone	10	U	10	1.2	ug/L			12/12/16 14:23	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/12/16 14:23	1
Methyl acetate	10	U	10	1.4	ug/L			12/12/16 14:23	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/12/16 14:23	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/12/16 14:23	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/12/16 14:23	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/12/16 14:23	1
Styrene	1.0	U	1.0	0.23	ug/L			12/12/16 14:23	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/12/16 14:23	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/12/16 14:23	1
Toluene	1.0	U	1.0	0.23	ug/L			12/12/16 14:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/12/16 14:23	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/12/16 14:23	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/12/16 14:23	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/12/16 14:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/12/16 14:23	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/12/16 14:23	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/12/16 14:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/12/16 14:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/12/16 14:23	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/12/16 14:23	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72811-1

Client Sample ID: TRIP BLANKS
Date Collected: 12/02/16 00:00
Date Received: 12/03/16 08:00

Lab Sample ID: 240-72811-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		73 - 120		12/12/16 14:23	1
Dibromofluoromethane (Surr)	86		80 - 120		12/12/16 14:23	1
1,2-Dichloroethane-d4 (Surr)	84		63 - 132		12/12/16 14:23	1
Toluene-d8 (Surr)	83		73 - 124		12/12/16 14:23	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72811-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(73-120)	(80-120)	(63-132)	(73-124)
240-72811-1	20161202UAW09-60V54N	91	84	80	82
240-72811-1 MS	20161202UAW09-60V54N	96	84	83	83
240-72811-1 MSD	20161202UAW09-60V54N	95	85	84	84
240-72811-2	20161202CINFB-1	93	85	82	83
240-72811-3	TRIP BLANKS	93	86	84	83
LCS 240-259041/4	Lab Control Sample	100	84	82	86
MB 240-259041/7	Method Blank	95	87	83	84

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(44-120)	(26-120)	(36-120)	(44-120)	(16-120)	(43-120)
240-72811-1	20161202UAW09-60V54N	64	60	52	62	45	78
240-72811-1 MS	20161202UAW09-60V54N	60	57	69	60	51	76
240-72811-1 MSD	20161202UAW09-60V54N	78	63	87	76	60	89
240-72811-2	20161202CINFB-1	58	50	50	56	40	70
LCS 240-258082/6-A	Lab Control Sample	78	82	82	74	57	83
MB 240-258082/5-A	Method Blank	65	53	55	61	38	74

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-259041/7
Matrix: Water
Analysis Batch: 259041

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/12/16 11:44	1
Benzene	1.0	U	1.0	0.28	ug/L			12/12/16 11:44	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/12/16 11:44	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/12/16 11:44	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/12/16 11:44	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/12/16 11:44	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/12/16 11:44	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/12/16 11:44	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/12/16 11:44	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/12/16 11:44	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/12/16 11:44	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/12/16 11:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/12/16 11:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/12/16 11:44	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/12/16 11:44	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/12/16 11:44	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/12/16 11:44	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/12/16 11:44	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/12/16 11:44	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/12/16 11:44	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/12/16 11:44	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/12/16 11:44	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/12/16 11:44	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/12/16 11:44	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/12/16 11:44	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/12/16 11:44	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/12/16 11:44	1
2-Hexanone	10	U	10	1.2	ug/L			12/12/16 11:44	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/12/16 11:44	1
Methyl acetate	10	U	10	1.4	ug/L			12/12/16 11:44	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/12/16 11:44	1
Methylene Chloride	0.959	J	1.0	0.53	ug/L			12/12/16 11:44	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/12/16 11:44	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/12/16 11:44	1
Styrene	1.0	U	1.0	0.23	ug/L			12/12/16 11:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/12/16 11:44	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/12/16 11:44	1
Toluene	1.0	U	1.0	0.23	ug/L			12/12/16 11:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/12/16 11:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/12/16 11:44	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/12/16 11:44	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/12/16 11:44	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/12/16 11:44	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/12/16 11:44	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/12/16 11:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/12/16 11:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/12/16 11:44	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/12/16 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*12/12/16 11:44*	*1*
Dibromofluoromethane (Surr)	*87*		*80 - 120*		*12/12/16 11:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*63 - 132*		*12/12/16 11:44*	*1*
Toluene-d8 (Surr)	*84*		*73 - 124*		*12/12/16 11:44*	*1*

Lab Sample ID: LCS 240-259041/4
Matrix: Water
Analysis Batch: 259041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	16.2		ug/L		81	46 - 120
Benzene	10.0	8.59		ug/L		86	80 - 120
Bromodichloromethane	10.0	9.21		ug/L		92	76 - 125
Bromoform	10.0	9.85		ug/L		99	52 - 157
Bromomethane	10.0	5.68		ug/L		57	24 - 160
2-Butanone (MEK)	20.0	17.5		ug/L		87	54 - 122
Carbon disulfide	10.0	9.04		ug/L		90	58 - 160
Carbon tetrachloride	10.0	8.52		ug/L		85	69 - 149
Chlorobenzene	10.0	9.32		ug/L		93	80 - 120
Chloroethane	10.0	6.18		ug/L		62	24 - 147
Chloroform	10.0	8.86		ug/L		89	80 - 120
Chloromethane	10.0	8.25		ug/L		82	50 - 135
cis-1,2-Dichloroethene	10.0	8.94		ug/L		89	80 - 120
cis-1,3-Dichloropropene	10.0	9.27		ug/L		93	75 - 120
Cyclohexane	10.0	8.17		ug/L		82	66 - 135
1,2-Dibromo-3-Chloropropane	10.0	9.07		ug/L		91	46 - 140
1,2-Dibromoethane	10.0	9.66		ug/L		97	80 - 126
1,2-Dichlorobenzene	10.0	9.01		ug/L		90	80 - 120
1,3-Dichlorobenzene	10.0	9.55		ug/L		95	80 - 120
1,4-Dichlorobenzene	10.0	9.14		ug/L		91	80 - 120
Dichlorodifluoromethane	10.0	8.62		ug/L		86	32 - 140
1,1-Dichloroethane	10.0	8.40		ug/L		84	77 - 121
1,2-Dichloroethane	10.0	8.79		ug/L		88	76 - 130
1,1-Dichloroethene	10.0	8.73		ug/L		87	70 - 141
1,2-Dichloropropane	10.0	9.03		ug/L		90	79 - 121
Ethylbenzene	10.0	9.34		ug/L		93	80 - 120
2-Hexanone	20.0	17.5		ug/L		87	56 - 124
Isopropylbenzene	10.0	9.88		ug/L		99	80 - 120
Methyl acetate	50.0	43.8		ug/L		88	65 - 124
Methylcyclohexane	10.0	8.25		ug/L		82	71 - 122
Methylene Chloride	10.0	9.86		ug/L		99	68 - 136
4-Methyl-2-pentanone (MIBK)	20.0	17.5		ug/L		87	60 - 131
Methyl tert-butyl ether	10.0	8.73		ug/L		87	75 - 126
Styrene	10.0	10.2		ug/L		102	80 - 120
1,1,2,2-Tetrachloroethane	10.0	9.90		ug/L		99	61 - 130
Tetrachloroethene	10.0	8.84		ug/L		88	80 - 123
Toluene	10.0	8.83		ug/L		88	80 - 121
trans-1,2-Dichloroethene	10.0	9.15		ug/L		92	80 - 123
trans-1,3-Dichloropropene	10.0	8.38		ug/L		84	65 - 120
1,2,4-Trichlorobenzene	10.0	8.25		ug/L		83	53 - 137
1,1,1-Trichloroethane	10.0	8.39		ug/L		84	79 - 133
1,1,2-Trichloroethane	10.0	8.75		ug/L		87	80 - 120
Trichloroethene	10.0	8.83		ug/L		88	80 - 122
Trichlorofluoromethane	10.0	10.1		ug/L		101	56 - 161

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-259041/4
Matrix: Water
Analysis Batch: 259041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.05		ug/L		81	65 - 151
Vinyl chloride	10.0	8.02		ug/L		80	60 - 129
Xylenes, Total	20.0	19.1		ug/L		95	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*84*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 132*
Toluene-d8 (Surr)	*86*		*73 - 124*

Lab Sample ID: 240-72811-1 MS
Matrix: Water
Analysis Batch: 259041

Client Sample ID: 20161202UAW09-60V54N
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10	U	20.0	15.4		ug/L		77	28 - 120
Benzene	1.0	U	10.0	8.64		ug/L		86	67 - 126
Bromodichloromethane	1.0	U	10.0	9.11		ug/L		91	64 - 127
Bromoform	1.0	U	10.0	9.87		ug/L		99	40 - 149
Bromomethane	1.0	U	10.0	5.10		ug/L		51	10 - 169
2-Butanone (MEK)	10	U	20.0	17.5		ug/L		87	38 - 123
Carbon disulfide	1.0	U	10.0	9.81		ug/L		98	43 - 172
Carbon tetrachloride	1.0	U	10.0	9.95		ug/L		99	51 - 154
Chlorobenzene	1.0	U	10.0	8.99		ug/L		90	58 - 128
Chloroethane	1.0	U	10.0	6.61		ug/L		66	10 - 162
Chloroform	1.0	U	10.0	8.73		ug/L		87	67 - 133
Chloromethane	1.0	U	10.0	7.15		ug/L		71	30 - 143
cis-1,2-Dichloroethene	1.0	U	10.0	8.64		ug/L		86	64 - 134
cis-1,3-Dichloropropene	1.0	U	10.0	8.75		ug/L		87	58 - 120
Cyclohexane	1.0	U	10.0	10.6		ug/L		106	36 - 144
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	9.53		ug/L		95	37 - 139
1,2-Dibromoethane	1.0	U	10.0	9.47		ug/L		95	64 - 137
1,2-Dichlorobenzene	1.0	U	10.0	8.84		ug/L		88	62 - 123
1,3-Dichlorobenzene	1.0	U	10.0	8.94		ug/L		89	59 - 122
1,4-Dichlorobenzene	1.0	U	10.0	9.08		ug/L		91	60 - 122
Dichlorodifluoromethane	1.0	U	10.0	8.44		ug/L		84	16 - 140
1,1-Dichloroethane	1.0	U	10.0	8.47		ug/L		85	57 - 135
1,2-Dichloroethane	1.0	U	10.0	8.97		ug/L		90	62 - 137
1,1-Dichloroethene	1.0	U	10.0	9.30		ug/L		93	50 - 156
1,2-Dichloropropane	1.0	U	10.0	8.81		ug/L		88	66 - 130
Ethylbenzene	1.0	U	10.0	9.39		ug/L		94	66 - 123
2-Hexanone	10	U	20.0	17.9		ug/L		89	41 - 135
Isopropylbenzene	1.0	U	10.0	10.3		ug/L		103	57 - 132
Methyl acetate	10	U	50.0	45.3		ug/L		91	46 - 135
Methylcyclohexane	1.0	U	10.0	10.9		ug/L		109	31 - 139
Methylene Chloride	1.0	U	10.0	8.77		ug/L		88	48 - 138
4-Methyl-2-pentanone (MIBK)	10	U	20.0	18.5		ug/L		92	43 - 143

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-72811-1 MS
Matrix: Water
Analysis Batch: 259041

Client Sample ID: 20161202UAW09-60V54N
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	1.0	U	10.0	8.87		ug/L		89	50 - 137
Styrene	1.0	U	10.0	9.95		ug/L		100	62 - 131
1,1,2,2-Tetrachloroethane	1.0	U	10.0	9.95		ug/L		100	48 - 134
Tetrachloroethene	1.0	U	10.0	9.21		ug/L		92	54 - 138
Toluene	1.0	U	10.0	8.74		ug/L		87	63 - 130
trans-1,2-Dichloroethene	1.0	U	10.0	8.98		ug/L		90	70 - 137
trans-1,3-Dichloropropene	1.0	U	10.0	7.73		ug/L		77	48 - 120
1,2,4-Trichlorobenzene	1.0	U	10.0	8.12		ug/L		81	35 - 140
1,1,1-Trichloroethane	1.0	U	10.0	8.90		ug/L		89	55 - 150
1,1,2-Trichloroethane	1.0	U	10.0	8.74		ug/L		87	65 - 130
Trichloroethene	1.0	U	10.0	8.98		ug/L		90	58 - 139
Trichlorofluoromethane	1.0	U	10.0	8.44		ug/L		84	26 - 175
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	9.91		ug/L		99	41 - 149
Vinyl chloride	1.0	U	10.0	7.36		ug/L		74	38 - 147
Xylenes, Total	2.0	U	20.0	19.4		ug/L		97	60 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*84*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*83*		*63 - 132*
Toluene-d8 (Surr)	*83*		*73 - 124*

Lab Sample ID: 240-72811-1 MSD
Matrix: Water
Analysis Batch: 259041

Client Sample ID: 20161202UAW09-60V54N
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10	U	20.0	16.2		ug/L		81	28 - 120	5	35
Benzene	1.0	U	10.0	8.58		ug/L		86	67 - 126	1	31
Bromodichloromethane	1.0	U	10.0	9.12		ug/L		91	64 - 127	0	35
Bromoform	1.0	U	10.0	8.88		ug/L		89	40 - 149	11	35
Bromomethane	1.0	U	10.0	5.70		ug/L		57	10 - 169	11	35
2-Butanone (MEK)	10	U	20.0	15.9		ug/L		79	38 - 123	10	35
Carbon disulfide	1.0	U	10.0	9.56		ug/L		96	43 - 172	3	35
Carbon tetrachloride	1.0	U	10.0	10.0		ug/L		100	51 - 154	1	35
Chlorobenzene	1.0	U	10.0	8.90		ug/L		89	58 - 128	1	35
Chloroethane	1.0	U	10.0	6.61		ug/L		66	10 - 162	0	35
Chloroform	1.0	U	10.0	8.62		ug/L		86	67 - 133	1	35
Chloromethane	1.0	U	10.0	8.02		ug/L		80	30 - 143	11	35
cis-1,2-Dichloroethene	1.0	U	10.0	8.54		ug/L		85	64 - 134	1	35
cis-1,3-Dichloropropene	1.0	U	10.0	8.65		ug/L		86	58 - 120	1	35
Cyclohexane	1.0	U	10.0	11.1		ug/L		111	36 - 144	4	35
1,2-Dibromo-3-Chloropropane	2.0	U	10.0	8.59		ug/L		86	37 - 139	10	35
1,2-Dibromoethane	1.0	U	10.0	8.73		ug/L		87	64 - 137	8	35
1,2-Dichlorobenzene	1.0	U	10.0	8.53		ug/L		85	62 - 123	4	35
1,3-Dichlorobenzene	1.0	U	10.0	8.92		ug/L		89	59 - 122	0	35
1,4-Dichlorobenzene	1.0	U	10.0	8.91		ug/L		89	60 - 122	2	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-72811-1 MSD
Matrix: Water
Analysis Batch: 259041

Client Sample ID: 20161202UAW09-60V54N
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	1.0	U	10.0	7.98		ug/L		80	16 - 140	6	35
1,1-Dichloroethane	1.0	U	10.0	8.44		ug/L		84	57 - 135	0	35
1,2-Dichloroethane	1.0	U	10.0	8.80		ug/L		88	62 - 137	2	35
1,1-Dichloroethene	1.0	U	10.0	9.78		ug/L		98	50 - 156	5	35
1,2-Dichloropropane	1.0	U	10.0	8.96		ug/L		90	66 - 130	2	35
Ethylbenzene	1.0	U	10.0	9.46		ug/L		95	66 - 123	1	34
2-Hexanone	10	U	20.0	16.3		ug/L		82	41 - 135	9	35
Isopropylbenzene	1.0	U	10.0	10.3		ug/L		103	57 - 132	0	35
Methyl acetate	10	U	50.0	43.4		ug/L		87	46 - 135	4	34
Methylcyclohexane	1.0	U	10.0	11.4		ug/L		114	31 - 139	5	35
Methylene Chloride	1.0	U	10.0	8.51		ug/L		85	48 - 138	3	35
4-Methyl-2-pentanone (MIBK)	10	U	20.0	17.1		ug/L		86	43 - 143	8	35
Methyl tert-butyl ether	1.0	U	10.0	8.66		ug/L		87	50 - 137	2	35
Styrene	1.0	U	10.0	9.62		ug/L		96	62 - 131	3	35
1,1,2,2-Tetrachloroethane	1.0	U	10.0	9.53		ug/L		95	48 - 134	4	35
Tetrachloroethene	1.0	U	10.0	9.33		ug/L		93	54 - 138	1	35
Toluene	1.0	U	10.0	8.56		ug/L		86	63 - 130	2	33
trans-1,2-Dichloroethene	1.0	U	10.0	9.01		ug/L		90	70 - 137	0	25
trans-1,3-Dichloropropene	1.0	U	10.0	7.61		ug/L		76	48 - 120	2	35
1,2,4-Trichlorobenzene	1.0	U	10.0	7.95		ug/L		79	35 - 140	2	35
1,1,1-Trichloroethane	1.0	U	10.0	9.22		ug/L		92	55 - 150	4	35
1,1,2-Trichloroethane	1.0	U	10.0	8.32		ug/L		83	65 - 130	5	35
Trichloroethene	1.0	U	10.0	9.34		ug/L		93	58 - 139	4	35
Trichlorofluoromethane	1.0	U	10.0	9.04		ug/L		90	26 - 175	7	35
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	10.6		ug/L		106	41 - 149	7	35
Vinyl chloride	1.0	U	10.0	7.91		ug/L		79	38 - 147	7	35
Xylenes, Total	2.0	U	20.0	19.2		ug/L		96	60 - 126	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*
Dibromofluoromethane (Surr)	*85*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*84*		*63 - 132*
Toluene-d8 (Surr)	*84*		*73 - 124*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-258082/5-A
Matrix: Water
Analysis Batch: 258558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/05/16 10:38	12/08/16 07:00	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/05/16 10:38	12/08/16 07:00	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/05/16 10:38	12/08/16 07:00	1
Aniline	5.0	U	5.0	0.22	ug/L		12/05/16 10:38	12/08/16 07:00	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/05/16 10:38	12/08/16 07:00	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/05/16 10:38	12/08/16 07:00	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-258082/5-A
Matrix: Water
Analysis Batch: 258558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/05/16 10:38	12/08/16 07:00	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/05/16 10:38	12/08/16 07:00	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/05/16 10:38	12/08/16 07:00	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/05/16 10:38	12/08/16 07:00	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/05/16 10:38	12/08/16 07:00	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/05/16 10:38	12/08/16 07:00	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/05/16 10:38	12/08/16 07:00	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/05/16 10:38	12/08/16 07:00	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/05/16 10:38	12/08/16 07:00	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/05/16 10:38	12/08/16 07:00	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/05/16 10:38	12/08/16 07:00	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/05/16 10:38	12/08/16 07:00	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/05/16 10:38	12/08/16 07:00	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/05/16 10:38	12/08/16 07:00	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/05/16 10:38	12/08/16 07:00	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/05/16 10:38	12/08/16 07:00	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/05/16 10:38	12/08/16 07:00	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/05/16 10:38	12/08/16 07:00	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/05/16 10:38	12/08/16 07:00	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/05/16 10:38	12/08/16 07:00	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/05/16 10:38	12/08/16 07:00	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/05/16 10:38	12/08/16 07:00	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/05/16 10:38	12/08/16 07:00	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/05/16 10:38	12/08/16 07:00	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/05/16 10:38	12/08/16 07:00	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/05/16 10:38	12/08/16 07:00	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/05/16 10:38	12/08/16 07:00	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/05/16 10:38	12/08/16 07:00	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/05/16 10:38	12/08/16 07:00	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/05/16 10:38	12/08/16 07:00	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/05/16 10:38	12/08/16 07:00	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/05/16 10:38	12/08/16 07:00	1
Di-n-butyl phthalate	0.692	J	1.0	0.40	ug/L		12/05/16 10:38	12/08/16 07:00	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/05/16 10:38	12/08/16 07:00	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/05/16 10:38	12/08/16 07:00	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/05/16 10:38	12/08/16 07:00	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/05/16 10:38	12/08/16 07:00	1
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/05/16 10:38	12/08/16 07:00	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/05/16 10:38	12/08/16 07:00	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/05/16 10:38	12/08/16 07:00	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/05/16 10:38	12/08/16 07:00	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/05/16 10:38	12/08/16 07:00	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/05/16 10:38	12/08/16 07:00	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/05/16 10:38	12/08/16 07:00	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/05/16 10:38	12/08/16 07:00	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/05/16 10:38	12/08/16 07:00	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/05/16 10:38	12/08/16 07:00	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/05/16 10:38	12/08/16 07:00	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-258082/5-A
Matrix: Water
Analysis Batch: 258558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/05/16 10:38	12/08/16 07:00	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/05/16 10:38	12/08/16 07:00	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/05/16 10:38	12/08/16 07:00	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/05/16 10:38	12/08/16 07:00	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/05/16 10:38	12/08/16 07:00	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/05/16 10:38	12/08/16 07:00	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/05/16 10:38	12/08/16 07:00	1
Phenol	1.0	U	1.0	0.15	ug/L		12/05/16 10:38	12/08/16 07:00	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/05/16 10:38	12/08/16 07:00	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/05/16 10:38	12/08/16 07:00	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/05/16 10:38	12/08/16 07:00	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/05/16 10:38	12/08/16 07:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*44 - 120*	*12/05/16 10:38*	*12/08/16 07:00*	*1*
2-Fluorophenol (Surr)	*53*		*26 - 120*	*12/05/16 10:38*	*12/08/16 07:00*	*1*
2,4,6-Tribromophenol (Surr)	*55*		*36 - 120*	*12/05/16 10:38*	*12/08/16 07:00*	*1*
Nitrobenzene-d5 (Surr)	*61*		*44 - 120*	*12/05/16 10:38*	*12/08/16 07:00*	*1*
Phenol-d5 (Surr)	*38*		*16 - 120*	*12/05/16 10:38*	*12/08/16 07:00*	*1*
Terphenyl-d14 (Surr)	*74*		*43 - 120*	*12/05/16 10:38*	*12/08/16 07:00*	*1*

Lab Sample ID: LCS 240-258082/6-A
Matrix: Water
Analysis Batch: 258558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	22.5		ug/L		70	58 - 120
Acenaphthylene	32.0	22.8		ug/L		71	59 - 120
Acetophenone	32.0	22.0		ug/L		69	62 - 120
Aniline	32.0	20.3		ug/L		64	10 - 120
Anthracene	32.0	23.6		ug/L		74	58 - 120
Atrazine	32.0	28.4		ug/L		89	61 - 120
Benzaldehyde	32.0	21.2		ug/L		66	10 - 120
Benzo[a]anthracene	32.0	23.8		ug/L		74	58 - 120
Benzo[b]fluoranthene	32.0	27.5		ug/L		86	59 - 120
Benzo[k]fluoranthene	32.0	26.5		ug/L		83	61 - 120
Benzo[g,h,i]perylene	32.0	29.6		ug/L		93	41 - 127
Benzo[a]pyrene	32.0	29.4		ug/L		92	63 - 120
Butyl benzyl phthalate	32.0	23.0		ug/L		72	60 - 120
1,1'-Biphenyl	32.0	22.4		ug/L		70	53 - 120
Bis(2-chloroethoxy)methane	32.0	21.8		ug/L		68	63 - 120
Bis(2-chloroethyl)ether	32.0	20.6		ug/L		64	57 - 120
Bis(2-ethylhexyl) phthalate	32.0	24.8		ug/L		78	62 - 120
4-Bromophenyl phenyl ether	32.0	24.9		ug/L		78	55 - 120
Caprolactam	32.0	14.5		ug/L		45	10 - 120
Carbazole	32.0	24.4		ug/L		76	59 - 120
4-Chloroaniline	32.0	28.1		ug/L		88	10 - 120
4-Chloro-3-methylphenol	32.0	23.5		ug/L		73	59 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-258082/6-A
Matrix: Water
Analysis Batch: 258558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	32.0	22.6		ug/L		71	56 - 120
2-Chlorophenol	32.0	23.2		ug/L		73	62 - 120
4-Chlorophenyl phenyl ether	32.0	25.2		ug/L		79	57 - 120
Chrysene	32.0	22.8		ug/L		71	59 - 120
2-Methylnaphthalene	32.0	22.5		ug/L		70	57 - 120
3 & 4 Methylphenol	32.0	22.4		ug/L		70	53 - 120
Dibenz(a,h)anthracene	32.0	29.9		ug/L		94	39 - 125
Dibenzofuran	32.0	23.1		ug/L		72	58 - 120
3,3'-Dichlorobenzidine	64.0	44.3		ug/L		69	10 - 120
2,4-Dichlorophenol	32.0	25.4		ug/L		79	63 - 120
Diethyl phthalate	32.0	23.7		ug/L		74	64 - 120
2,4-Dimethylphenol	32.0	21.9		ug/L		68	41 - 120
Dimethyl phthalate	32.0	24.3		ug/L		76	63 - 120
4,6-Dinitro-2-methylphenol	64.0	41.4		ug/L		65	40 - 120
2,4-Dinitrophenol	64.0	36.0	J	ug/L		56	20 - 120
2,4-Dinitrotoluene	32.0	23.6		ug/L		74	62 - 120
Di-n-butyl phthalate	32.0	24.4		ug/L		76	58 - 120
Di-n-octyl phthalate	32.0	24.4		ug/L		76	58 - 128
Fluoranthene	32.0	25.3		ug/L		79	59 - 120
Fluorene	32.0	23.2		ug/L		73	57 - 120
Hexachlorobenzene	32.0	23.7		ug/L		74	48 - 120
Hexachlorobutadiene	32.0	24.3		ug/L		76	47 - 120
Hexachlorocyclopentadiene	32.0	17.5		ug/L		55	24 - 120
Hexachloroethane	32.0	21.3		ug/L		66	48 - 120
Indeno[1,2,3-cd]pyrene	32.0	30.5		ug/L		95	49 - 121
Isophorone	32.0	21.5		ug/L		67	66 - 120
2-Methylphenol	32.0	22.6		ug/L		71	55 - 120
Naphthalene	32.0	22.3		ug/L		70	58 - 120
2-Nitroaniline	32.0	23.3		ug/L		73	62 - 120
3-Nitroaniline	32.0	33.4		ug/L		105	10 - 171
4-Nitroaniline	32.0	27.7		ug/L		87	32 - 132
Nitrobenzene	32.0	22.7		ug/L		71	63 - 120
2-Nitrophenol	32.0	25.1		ug/L		78	65 - 120
4-Nitrophenol	64.0	34.8		ug/L		54	18 - 120
N-Nitrosodiphenylamine	32.0	23.1		ug/L		72	54 - 120
N-Nitrosodi-n-propylamine	32.0	20.9		ug/L		65	63 - 120
2,2'-oxybis(1-chloropropane)	32.0	19.5		ug/L		61	61 - 120
Pentachlorophenol	64.0	34.9	J	ug/L		54	33 - 120
Phenanthrene	32.0	22.8		ug/L		71	57 - 120
Phenol	32.0	16.7		ug/L		52	21 - 120
Pyrene	32.0	22.6		ug/L		71	57 - 120
2,4,5-Trichlorophenol	32.0	23.9		ug/L		75	61 - 120
2,4,6-Trichlorophenol	32.0	25.3		ug/L		79	57 - 120
2,6-Dinitrotoluene	32.0	26.5		ug/L		83	63 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*44 - 120*
2-Fluorophenol (Surr)	*82*		*26 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-258082/6-A
Matrix: Water
Analysis Batch: 258558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258082

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*82*		*36 - 120*
Nitrobenzene-d5 (Surr)	*74*		*44 - 120*
Phenol-d5 (Surr)	*57*		*16 - 120*
Terphenyl-d14 (Surr)	*83*		*43 - 120*

Lab Sample ID: 240-72811-1 MS
Matrix: Water
Analysis Batch: 258558

Client Sample ID: 20161202UAW09-60V54N
Prep Type: Total/NA
Prep Batch: 258082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.19	U	30.8	18.1		ug/L		59	34 - 120
Acenaphthylene	0.19	U	30.8	18.0		ug/L		58	33 - 120
Acetophenone	0.96	U	30.8	18.1		ug/L		59	34 - 120
Aniline	4.8	U	30.8	19.9		ug/L		65	10 - 120
Anthracene	0.19	U	30.8	19.9		ug/L		65	35 - 120
Atrazine	1.9	U	30.8	23.4		ug/L		76	10 - 120
Benzaldehyde	1.9	U F2	30.8	15.5		ug/L		50	10 - 120
Benzo[a]anthracene	0.19	U	30.8	20.8		ug/L		68	35 - 120
Benzo[b]fluoranthene	0.19	U	30.8	24.2		ug/L		79	36 - 122
Benzo[k]fluoranthene	0.19	U	30.8	24.5		ug/L		80	38 - 120
Benzo[g,h,i]perylene	0.19	U	30.8	24.9		ug/L		81	10 - 129
Benzo[a]pyrene	0.19	U	30.8	25.9		ug/L		84	34 - 120
Butyl benzyl phthalate	0.96	U	30.8	20.2		ug/L		66	30 - 120
1,1'-Biphenyl	0.96	U	30.8	17.2		ug/L		56	10 - 120
Bis(2-chloroethoxy)methane	0.96	U	30.8	17.5		ug/L		57	34 - 120
Bis(2-chloroethyl)ether	0.96	U	30.8	16.9		ug/L		55	31 - 121
Bis(2-ethylhexyl) phthalate	1.9	U	30.8	21.6		ug/L		70	27 - 120
4-Bromophenyl phenyl ether	1.9	U	30.8	19.7		ug/L		64	27 - 120
Caprolactam	2.2	J	30.8	13.6		ug/L		37	10 - 120
Carbazole	0.96	U	30.8	21.1		ug/L		68	10 - 120
4-Chloroaniline	1.9	U	30.8	23.2		ug/L		75	10 - 120
4-Chloro-3-methylphenol	1.9	U	30.8	19.7		ug/L		64	15 - 127
2-Chloronaphthalene	0.96	U	30.8	17.1		ug/L		56	25 - 120
2-Chlorophenol	0.96	U	30.8	19.3		ug/L		63	34 - 120
4-Chlorophenyl phenyl ether	1.9	U	30.8	20.0		ug/L		65	26 - 120
Chrysene	0.19	U	30.8	20.4		ug/L		66	37 - 120
2-Methylnaphthalene	0.19	U	30.8	16.9		ug/L		55	26 - 120
3 & 4 Methylphenol	1.9	U	30.8	19.7		ug/L		64	33 - 120
Dibenz(a,h)anthracene	0.19	U	30.8	25.5		ug/L		83	10 - 120
Dibenzofuran	0.96	U	30.8	18.7		ug/L		61	28 - 120
3,3'-Dichlorobenzidine	4.8	U	61.5	37.4		ug/L		61	10 - 120
2,4-Dichlorophenol	1.9	U	30.8	20.6		ug/L		67	33 - 120
Diethyl phthalate	0.96	U	30.8	20.7		ug/L		67	33 - 120
2,4-Dimethylphenol	1.9	U	30.8	18.5		ug/L		60	17 - 120
Dimethyl phthalate	0.96	U	30.8	21.0		ug/L		68	32 - 120
4,6-Dinitro-2-methylphenol	4.8	U	61.5	31.6		ug/L		51	11 - 120
2,4-Dinitrophenol	38	U	61.5	26.3	J	ug/L		43	10 - 127
2,4-Dinitrotoluene	4.8	U	30.8	20.4		ug/L		66	33 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-72811-1 MS
Matrix: Water
Analysis Batch: 258558

Client Sample ID: 20161202UAW09-60V54N
Prep Type: Total/NA
Prep Batch: 258082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-butyl phthalate	0.51	J B	30.8	20.9		ug/L		66	31 - 120
Di-n-octyl phthalate	0.96	U	30.8	21.4		ug/L		70	10 - 120
Fluoranthene	0.19	U	30.8	22.0		ug/L		71	36 - 120
Fluorene	0.19	U	30.8	19.5		ug/L		64	35 - 120
Hexachlorobenzene	0.96	U	30.8	19.8		ug/L		64	25 - 120
Hexachlorobutadiene	0.96	U	30.8	16.6		ug/L		54	19 - 120
Hexachlorocyclopentadiene	9.6	U	30.8	11.8		ug/L		38	12 - 120
Hexachloroethane	0.96	U	30.8	14.4		ug/L		47	20 - 120
Indeno[1,2,3-cd]pyrene	0.19	U	30.8	26.0		ug/L		84	10 - 123
Isophorone	0.96	U	30.8	17.2		ug/L		56	35 - 120
2-Methylphenol	0.96	U	30.8	20.0		ug/L		65	31 - 120
Naphthalene	0.19	U	30.8	17.2		ug/L		56	14 - 120
2-Nitroaniline	1.9	U	30.8	19.6		ug/L		64	32 - 120
3-Nitroaniline	1.9	U	30.8	27.5		ug/L		90	10 - 120
4-Nitroaniline	1.9	U	30.8	22.9		ug/L		74	10 - 120
Nitrobenzene	0.96	U	30.8	18.1		ug/L		59	35 - 120
2-Nitrophenol	1.9	U	30.8	19.6		ug/L		64	32 - 122
4-Nitrophenol	4.8	U	61.5	28.8		ug/L		47	15 - 120
N-Nitrosodiphenylamine	0.96	U	30.8	19.4		ug/L		63	10 - 125
N-Nitrosodi-n-propylamine	0.96	U	30.8	17.0		ug/L		55	35 - 120
2,2'-oxybis(1-chloropropane)	0.96	U	30.8	15.8		ug/L		51	28 - 120
Pentachlorophenol	38	U F2	61.5	25.5	J	ug/L		41	16 - 120
Phenanthrene	0.19	U	30.8	19.0		ug/L		62	36 - 120
Phenol	0.96	U	30.8	14.8		ug/L		48	20 - 120
Pyrene	0.19	U	30.8	19.7		ug/L		64	36 - 120
2,4,5-Trichlorophenol	4.8	U	30.8	19.7		ug/L		64	29 - 120
2,4,6-Trichlorophenol	4.8	U	30.8	20.9		ug/L		68	29 - 120
2,6-Dinitrotoluene	4.8	U	30.8	22.3		ug/L		72	32 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*60*		*44 - 120*
2-Fluorophenol (Surr)	*57*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*69*		*36 - 120*
Nitrobenzene-d5 (Surr)	*60*		*44 - 120*
Phenol-d5 (Surr)	*51*		*16 - 120*
Terphenyl-d14 (Surr)	*76*		*43 - 120*

Lab Sample ID: 240-72811-1 MSD
Matrix: Water
Analysis Batch: 258558

Client Sample ID: 20161202UAW09-60V54N
Prep Type: Total/NA
Prep Batch: 258082

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.19	U	32.0	23.0		ug/L		72	34 - 120	24	35
Acenaphthylene	0.19	U	32.0	23.2		ug/L		72	33 - 120	25	35
Acetophenone	0.96	U	32.0	24.2		ug/L		76	34 - 120	29	35
Aniline	4.8	U	32.0	23.9		ug/L		75	10 - 120	18	35
Anthracene	0.19	U	32.0	25.1		ug/L		78	35 - 120	23	35
Atrazine	1.9	U	32.0	30.4		ug/L		95	10 - 120	26	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-72811-1 MSD | **Client Sample ID: 20161202UAW09-60V54N**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 258558 | **Prep Batch: 258082**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzaldehyde	1.9	U F2	32.0	24.7	F2	ug/L		77	10 - 120	46	35
Benzo[a]anthracene	0.19	U	32.0	25.5		ug/L		80	35 - 120	20	35
Benzo[b]fluoranthene	0.19	U	32.0	29.8		ug/L		93	36 - 122	21	35
Benzo[k]fluoranthene	0.19	U	32.0	30.5		ug/L		95	38 - 120	22	35
Benzo[g,h,i]perylene	0.19	U	32.0	31.0		ug/L		97	10 - 129	22	35
Benzo[a]pyrene	0.19	U	32.0	32.2		ug/L		101	34 - 120	22	35
Butyl benzyl phthalate	0.96	U	32.0	24.8		ug/L		78	30 - 120	21	35
1,1'-Biphenyl	0.96	U	32.0	22.5		ug/L		70	10 - 120	27	35
Bis(2-chloroethoxy)methane	0.96	U	32.0	22.6		ug/L		71	34 - 120	25	35
Bis(2-chloroethyl)ether	0.96	U	32.0	22.3		ug/L		70	31 - 121	28	35
Bis(2-ethylhexyl) phthalate	1.9	U	32.0	25.9		ug/L		81	27 - 120	18	35
4-Bromophenyl phenyl ether	1.9	U	32.0	25.6		ug/L		80	27 - 120	26	35
Caprolactam	2.2	J	32.0	14.2		ug/L		37	10 - 120	4	35
Carbazole	0.96	U	32.0	26.6		ug/L		83	10 - 120	23	35
4-Chloroaniline	1.9	U	32.0	28.7		ug/L		90	10 - 120	21	35
4-Chloro-3-methylphenol	1.9	U	32.0	24.4		ug/L		76	15 - 127	21	35
2-Chloronaphthalene	0.96	U	32.0	22.8		ug/L		71	25 - 120	28	35
2-Chlorophenol	0.96	U	32.0	25.2		ug/L		79	34 - 120	27	35
4-Chlorophenyl phenyl ether	1.9	U	32.0	25.3		ug/L		79	26 - 120	23	35
Chrysene	0.19	U	32.0	24.6		ug/L		77	37 - 120	19	35
2-Methylnaphthalene	0.19	U	32.0	22.0		ug/L		69	26 - 120	26	35
3 & 4 Methylphenol	1.9	U	32.0	25.0		ug/L		78	33 - 120	24	35
Dibenz(a,h)anthracene	0.19	U	32.0	31.6		ug/L		99	10 - 120	21	35
Dibenzofuran	0.96	U	32.0	23.6		ug/L		74	28 - 120	23	35
3,3'-Dichlorobenzidine	4.8	U	64.0	48.7		ug/L		76	10 - 120	26	35
2,4-Dichlorophenol	1.9	U	32.0	26.6		ug/L		83	33 - 120	26	35
Diethyl phthalate	0.96	U	32.0	25.1		ug/L		79	33 - 120	19	35
2,4-Dimethylphenol	1.9	U	32.0	23.9		ug/L		75	17 - 120	25	35
Dimethyl phthalate	0.96	U	32.0	26.2		ug/L		82	32 - 120	22	35
4,6-Dinitro-2-methylphenol	4.8	U	64.0	43.6		ug/L		68	11 - 120	32	35
2,4-Dinitrophenol	38	U	64.0	36.3	J	ug/L		57	10 - 127	32	35
2,4-Dinitrotoluene	4.8	U	32.0	25.6		ug/L		80	33 - 120	23	35
Di-n-butyl phthalate	0.51	J B	32.0	26.0		ug/L		80	31 - 120	22	35
Di-n-octyl phthalate	0.96	U	32.0	26.7		ug/L		83	10 - 120	22	35
Fluoranthene	0.19	U	32.0	27.6		ug/L		86	36 - 120	23	35
Fluorene	0.19	U	32.0	24.3		ug/L		76	35 - 120	22	35
Hexachlorobenzene	0.96	U	32.0	25.0		ug/L		78	25 - 120	23	35
Hexachlorobutadiene	0.96	U	32.0	22.4		ug/L		70	19 - 120	30	35
Hexachlorocyclopentadiene	9.6	U	32.0	16.4		ug/L		51	12 - 120	32	35
Hexachloroethane	0.96	U	32.0	18.9		ug/L		59	20 - 120	27	35
Indeno[1,2,3-cd]pyrene	0.19	U	32.0	32.5		ug/L		102	10 - 123	22	35
Isophorone	0.96	U	32.0	22.2		ug/L		69	35 - 120	25	35
2-Methylphenol	0.96	U	32.0	25.4		ug/L		79	31 - 120	24	35
Naphthalene	0.19	U	32.0	22.1		ug/L		69	14 - 120	25	35
2-Nitroaniline	1.9	U	32.0	25.1		ug/L		78	32 - 120	24	35
3-Nitroaniline	1.9	U	32.0	38.1		ug/L		119	10 - 120	32	35
4-Nitroaniline	1.9	U	32.0	29.9		ug/L		93	10 - 120	26	35
Nitrobenzene	0.96	U	32.0	23.5		ug/L		74	35 - 120	26	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-72811-1 MSD
Matrix: Water
Analysis Batch: 258558

Client Sample ID: 20161202UAW09-60V54N
Prep Type: Total/NA
Prep Batch: 258082

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitrophenol	1.9	U	32.0	26.3		ug/L		82	32 - 122	29	35
4-Nitrophenol	4.8	U	64.0	34.8		ug/L		54	15 - 120	19	35
N-Nitrosodiphenylamine	0.96	U	32.0	24.8		ug/L		77	10 - 125	24	35
N-Nitrosodi-n-propylamine	0.96	U	32.0	23.0		ug/L		72	35 - 120	30	35
2,2'-oxybis(1-chloropropane)	0.96	U	32.0	21.2		ug/L		66	28 - 120	29	35
Pentachlorophenol	38	U F2	64.0	37.5	J F2	ug/L		59	16 - 120	38	31
Phenanthrene	0.19	U	32.0	24.1		ug/L		75	36 - 120	24	35
Phenol	0.96	U	32.0	17.9		ug/L		56	20 - 120	19	35
Pyrene	0.19	U	32.0	24.3		ug/L		76	36 - 120	21	35
2,4,5-Trichlorophenol	4.8	U	32.0	25.4		ug/L		79	29 - 120	25	35
2,4,6-Trichlorophenol	4.8	U	32.0	26.9		ug/L		84	29 - 120	25	35
2,6-Dinitrotoluene	4.8	U	32.0	28.3		ug/L		88	32 - 120	24	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*44 - 120*
2-Fluorophenol (Surr)	*63*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*87*		*36 - 120*
Nitrobenzene-d5 (Surr)	*76*		*44 - 120*
Phenol-d5 (Surr)	*60*		*16 - 120*
Terphenyl-d14 (Surr)	*89*		*43 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-258060/1-A
Matrix: Water
Analysis Batch: 258256

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/05/16 14:00	12/06/16 09:30	1
Antimony	10	U	10	3.1	ug/L		12/05/16 14:00	12/06/16 09:30	1
Barium	200	U	200	2.4	ug/L		12/05/16 14:00	12/06/16 09:30	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/05/16 14:00	12/06/16 09:30	1
Calcium	5000	U	5000	710	ug/L		12/05/16 14:00	12/06/16 09:30	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/05/16 14:00	12/06/16 09:30	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/05/16 14:00	12/06/16 09:30	1
Chromium	5.0	U	5.0	0.55	ug/L		12/05/16 14:00	12/06/16 09:30	1
Copper	25	U	25	3.9	ug/L		12/05/16 14:00	12/06/16 09:30	1
Iron	100	U	100	25	ug/L		12/05/16 14:00	12/06/16 09:30	1
Potassium	5000	U	5000	70	ug/L		12/05/16 14:00	12/06/16 09:30	1
Magnesium	5000	U	5000	230	ug/L		12/05/16 14:00	12/06/16 09:30	1
Manganese	15	U	15	5.1	ug/L		12/05/16 14:00	12/06/16 09:30	1
Silver	5.0	U	5.0	0.92	ug/L		12/05/16 14:00	12/06/16 09:30	1
Sodium	5000	U	5000	330	ug/L		12/05/16 14:00	12/06/16 09:30	1
Nickel	40	U	40	1.6	ug/L		12/05/16 14:00	12/06/16 09:30	1
Vanadium	10	U	10	4.4	ug/L		12/05/16 14:00	12/06/16 09:30	1
Zinc	50	U	50	16	ug/L		12/05/16 14:00	12/06/16 09:30	1
Arsenic	10	U	10	3.3	ug/L		12/05/16 14:00	12/06/16 09:30	1
Lead	5.0	U	5.0	1.9	ug/L		12/05/16 14:00	12/06/16 09:30	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 240-258060/1-A
Matrix: Water
Analysis Batch: 258256

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	15	U	15	5.1	ug/L		12/05/16 14:00	12/06/16 09:30	1
Thallium	10	U	10	2.1	ug/L		12/05/16 14:00	12/06/16 09:30	1
Tin	100	U	100	1.8	ug/L		12/05/16 14:00	12/06/16 09:30	1

Lab Sample ID: LCS 240-258060/2-A
Matrix: Water
Analysis Batch: 258256

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	1950		ug/L		97	80 - 120
Antimony	500	520		ug/L		104	80 - 120
Barium	2000	1930		ug/L		96	80 - 120
Beryllium	50.0	48.9		ug/L		98	80 - 120
Calcium	50000	48300		ug/L		97	80 - 120
Cadmium	50.0	51.5		ug/L		103	80 - 120
Cobalt	500	496		ug/L		99	80 - 120
Chromium	200	204		ug/L		102	80 - 120
Copper	250	260		ug/L		104	80 - 120
Iron	1000	1010		ug/L		101	80 - 120
Potassium	50000	46500		ug/L		93	80 - 120
Magnesium	50000	50700		ug/L		101	80 - 120
Manganese	500	538		ug/L		108	80 - 120
Silver	50.0	52.2		ug/L		104	80 - 120
Sodium	50000	50100		ug/L		100	80 - 120
Nickel	500	506		ug/L		101	80 - 120
Vanadium	500	483		ug/L		97	80 - 120
Zinc	500	509		ug/L		102	80 - 120
Arsenic	2000	2090		ug/L		105	80 - 120
Lead	500	495		ug/L		99	80 - 120
Selenium	2000	2100		ug/L		105	80 - 120
Thallium	2000	2000		ug/L		100	80 - 120
Tin	2000	2020		ug/L		101	80 - 120

Lab Sample ID: 240-72811-1 MS
Matrix: Water
Analysis Batch: 258256

Client Sample ID: 20161202UAW09-60V54N
Prep Type: Total Recoverable
Prep Batch: 258060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200	U	2000	1890		ug/L		94	75 - 125
Antimony	10	U	500	507		ug/L		101	75 - 125
Barium	190	J	2000	2040		ug/L		92	75 - 125
Beryllium	5.0	U	50.0	46.4		ug/L		93	75 - 125
Calcium	100000		50000	144000		ug/L		87	75 - 125
Cadmium	2.0	U	50.0	49.4		ug/L		99	75 - 125
Cobalt	7.0	U	500	475		ug/L		95	75 - 125
Chromium	1.5	J	200	194		ug/L		96	75 - 125
Copper	25	U	250	248		ug/L		99	75 - 125
Iron	100	U	1000	974		ug/L		97	75 - 125
Potassium	1100	J	50000	46200		ug/L		90	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-72811-1 MS
Matrix: Water
Analysis Batch: 258256

Client Sample ID: 20161202UAW09-60V54N
Prep Type: Total Recoverable
Prep Batch: 258060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	36000		50000	83400		ug/L		94	75 - 125
Manganese	93		500	600		ug/L		101	75 - 125
Silver	5.0	U	50.0	49.4		ug/L		99	75 - 125
Sodium	14000		50000	61500		ug/L		96	75 - 125
Nickel	1.8	J	500	483		ug/L		96	75 - 125
Vanadium	10	U	500	461		ug/L		92	75 - 125
Zinc	50	U	500	488		ug/L		98	75 - 125
Arsenic	8.0	J	2000	2040		ug/L		101	75 - 125
Lead	2.5	J	500	466		ug/L		93	75 - 125
Selenium	15	U	2000	2020		ug/L		101	75 - 125
Thallium	10	U	2000	1900		ug/L		95	75 - 125
Tin	100	U	2000	1970		ug/L		98	75 - 125

Lab Sample ID: 240-72811-1 MSD
Matrix: Water
Analysis Batch: 258256

Client Sample ID: 20161202UAW09-60V54N
Prep Type: Total Recoverable
Prep Batch: 258060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	200	U	2000	2010		ug/L		101	75 - 125	7	20
Antimony	10	U	500	522		ug/L		104	75 - 125	3	20
Barium	190	J	2000	2180		ug/L		99	75 - 125	7	20
Beryllium	5.0	U	50.0	49.6		ug/L		99	75 - 125	7	20
Calcium	100000		50000	155000		ug/L		108	75 - 125	7	20
Cadmium	2.0	U	50.0	51.6		ug/L		103	75 - 125	4	20
Cobalt	7.0	U	500	497		ug/L		99	75 - 125	4	20
Chromium	1.5	J	200	205		ug/L		102	75 - 125	6	20
Copper	25	U	250	262		ug/L		105	75 - 125	5	20
Iron	100	U	1000	1050		ug/L		105	75 - 125	8	20
Potassium	1100	J	50000	49200		ug/L		96	75 - 125	6	20
Magnesium	36000		50000	89500		ug/L		106	75 - 125	7	20
Manganese	93		500	633		ug/L		108	75 - 125	5	20
Silver	5.0	U	50.0	52.2		ug/L		104	75 - 125	5	20
Sodium	14000		50000	65800		ug/L		105	75 - 125	7	20
Nickel	1.8	J	500	504		ug/L		100	75 - 125	4	20
Vanadium	10	U	500	493		ug/L		99	75 - 125	7	20
Zinc	50	U	500	509		ug/L		102	75 - 125	4	20
Arsenic	8.0	J	2000	2120		ug/L		106	75 - 125	4	20
Lead	2.5	J	500	485		ug/L		96	75 - 125	4	20
Selenium	15	U	2000	2090		ug/L		105	75 - 125	4	20
Thallium	10	U	2000	1990		ug/L		99	75 - 125	4	20
Tin	100	U	2000	2050		ug/L		102	75 - 125	4	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-258062/1-A
Matrix: Water
Analysis Batch: 258266

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/05/16 14:00	12/06/16 08:28	1

Lab Sample ID: LCS 240-258062/2-A
Matrix: Water
Analysis Batch: 258266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.13		ug/L		103	80 - 120

Lab Sample ID: 240-72811-1 MS
Matrix: Water
Analysis Batch: 258266

Client Sample ID: 20161202UAW09-60V54N
Prep Type: Total/NA
Prep Batch: 258062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	1.09		ug/L		109	80 - 120

Lab Sample ID: 240-72811-1 MSD
Matrix: Water
Analysis Batch: 258266

Client Sample ID: 20161202UAW09-60V54N
Prep Type: Total/NA
Prep Batch: 258062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.05		ug/L		105	80 - 120	4	20

GC/MS VOA

Analysis Batch: 259041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72811-1	20161202UAW09-60V54N	Total/NA	Water	8260B	
240-72811-2	20161202CINFB-1	Total/NA	Water	8260B	
240-72811-3	TRIP BLANKS	Total/NA	Water	8260B	
MB 240-259041/7	Method Blank	Total/NA	Water	8260B	
LCS 240-259041/4	Lab Control Sample	Total/NA	Water	8260B	
240-72811-1 MS	20161202UAW09-60V54N	Total/NA	Water	8260B	
240-72811-1 MSD	20161202UAW09-60V54N	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 258082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72811-1	20161202UAW09-60V54N	Total/NA	Water	3510C	
240-72811-2	20161202CINFB-1	Total/NA	Water	3510C	
MB 240-258082/5-A	Method Blank	Total/NA	Water	3510C	
LCS 240-258082/6-A	Lab Control Sample	Total/NA	Water	3510C	
240-72811-1 MS	20161202UAW09-60V54N	Total/NA	Water	3510C	
240-72811-1 MSD	20161202UAW09-60V54N	Total/NA	Water	3510C	

Analysis Batch: 258558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72811-1	20161202UAW09-60V54N	Total/NA	Water	8270C	258082
240-72811-2	20161202CINFB-1	Total/NA	Water	8270C	258082
MB 240-258082/5-A	Method Blank	Total/NA	Water	8270C	258082
LCS 240-258082/6-A	Lab Control Sample	Total/NA	Water	8270C	258082
240-72811-1 MS	20161202UAW09-60V54N	Total/NA	Water	8270C	258082
240-72811-1 MSD	20161202UAW09-60V54N	Total/NA	Water	8270C	258082

Metals

Prep Batch: 258060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72811-1	20161202UAW09-60V54N	Total Recoverable	Water	3005A	
240-72811-2	20161202CINFB-1	Total Recoverable	Water	3005A	
MB 240-258060/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-258060/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-72811-1 MS	20161202UAW09-60V54N	Total Recoverable	Water	3005A	
240-72811-1 MSD	20161202UAW09-60V54N	Total Recoverable	Water	3005A	

Prep Batch: 258062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72811-1	20161202UAW09-60V54N	Total/NA	Water	7470A	
240-72811-2	20161202CINFB-1	Total/NA	Water	7470A	
MB 240-258062/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-258062/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-72811-1 MS	20161202UAW09-60V54N	Total/NA	Water	7470A	
240-72811-1 MSD	20161202UAW09-60V54N	Total/NA	Water	7470A	

Metals (Continued)

Analysis Batch: 258256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72811-1	20161202UAW09-60V54N	Total Recoverable	Water	6010B	258060
240-72811-2	20161202CINFB-1	Total Recoverable	Water	6010B	258060
MB 240-258060/1-A	Method Blank	Total Recoverable	Water	6010B	258060
LCS 240-258060/2-A	Lab Control Sample	Total Recoverable	Water	6010B	258060
240-72811-1 MS	20161202UAW09-60V54N	Total Recoverable	Water	6010B	258060
240-72811-1 MSD	20161202UAW09-60V54N	Total Recoverable	Water	6010B	258060

Analysis Batch: 258266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72811-1	20161202UAW09-60V54N	Total/NA	Water	7470A	258062
240-72811-2	20161202CINFB-1	Total/NA	Water	7470A	258062
MB 240-258062/1-A	Method Blank	Total/NA	Water	7470A	258062
LCS 240-258062/2-A	Lab Control Sample	Total/NA	Water	7470A	258062
240-72811-1 MS	20161202UAW09-60V54N	Total/NA	Water	7470A	258062
240-72811-1 MSD	20161202UAW09-60V54N	Total/NA	Water	7470A	258062

Lab Chronicle

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72811-1

Client Sample ID: 20161202UAW09-60V54N

Lab Sample ID: 240-72811-1

Date Collected: 12/02/16 13:33

Matrix: Water

Date Received: 12/03/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259041	12/12/16 13:38	LEE	TAL CAN
Total/NA	Prep	3510C			258082	12/05/16 10:38	KEH	TAL CAN
Total/NA	Analysis	8270C		1	258558	12/08/16 08:38	TMH	TAL CAN
Total Recoverable	Prep	3005A			258060	12/05/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	258256	12/06/16 09:39	KLC	TAL CAN
Total/NA	Prep	7470A			258062	12/05/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	258266	12/06/16 08:32	DSH	TAL CAN

Client Sample ID: 20161202CINFB-1

Lab Sample ID: 240-72811-2

Date Collected: 12/02/16 14:30

Matrix: Water

Date Received: 12/03/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259041	12/12/16 14:01	LEE	TAL CAN
Total/NA	Prep	3510C			258082	12/05/16 10:38	KEH	TAL CAN
Total/NA	Analysis	8270C		1	258558	12/08/16 09:51	TMH	TAL CAN
Total Recoverable	Prep	3005A			258060	12/05/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	258256	12/06/16 21:38	KLC	TAL CAN
Total/NA	Prep	7470A			258062	12/05/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	258266	12/06/16 09:16	DSH	TAL CAN

Client Sample ID: TRIP BLANKS

Lab Sample ID: 240-72811-3

Date Collected: 12/02/16 00:00

Matrix: Water

Date Received: 12/03/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259041	12/12/16 14:23	LEE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72811-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17
Illinois	NELAP	5	200004	07-31-17
Kansas	NELAP	7	E-10336	01-31-17 *
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16 *
Minnesota	NELAP	5	039-999-348	12-31-16 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17
Nevada	State Program	9	OH-000482008A	07-31-17
New Jersey	NELAP	2	OH001	06-30-17
New York	NELAP	2	10975	03-31-17
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17
Pennsylvania	NELAP	3	68-00340	08-31-17
Texas	NELAP	6	T104704517-15-5	08-31-17
USDA	Federal		P330-13-00319	11-26-16 *
Virginia	NELAP	3	460175	09-14-17
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16 *
Wisconsin	State Program	5	999518190	08-31-17

* Certification renewal pending - certification considered valid.

0.2/C0.2

CINCINNATI

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

210501 JIM SHAW

Client Information	Sampler	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Jim Shaw	Phone: 513.365.4541	O'Meara, Patrick J E-Mail: patrick.omeara@testamericainc.com		240-39036-17141.10 Page: Page 10 of 10
Company: Parsons Corporation				Job #:

Address: 2443 Crowne Point Drive	Due Date Requested:	
City: Cincinnati	TAT Requested (days):	
State, Zip: OH, 45241		
Phone: 513-317-2984(Tel)	PO #: 4500814287	
Email: Jim.Shaw@parsons.com	WO #:	
Project Name: R & H Cincinnati - GW Sampling	Project #: 24009047	
Site: ROH/DOW CINCINNATI	SSOW#:	

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	6010B, 7470A	8270C - BNAs TCL / APP-IX /Aniline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N		
20161202UAW09-60V54 N	12/2/16	1333	G	Water	N	Y	X	X	X		
20161202UAW09-60V54 MS	12/2/16	1333	G	Water	N	Y	X	X	X		MS/MSD FOR
20161202UAW09-60V54 MSD	12/2/16	1333	G	Water	N	Y	X	X	X		MS/MSD FOR
20161202CINFB-1	12/2/16	1430	G	"	N		X	X	X		
TRIP BLANKS	12/2/16	—	G	"	N		X				

240-72811 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	12/2/16 1530	TAI	Received by: Side Cook	12/2/16 1530	TAI
Relinquished by:	12/2/16 1530	TAI	Received by: JDP	12-3-16 8:00	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton Sample Receipt Form/Narrative Login # : 72811
Canton Facility

Client PARSONS CORP Site Name _____ Cooler unpacked by: POP

Cooler Received on 12-3-16 Opened on 12-3-16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other CLIPPER

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

☐ See Multiple Cooler Form

1. Cooler temperature upon receipt
   IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 0.2 °C Corrected Cooler Temp. 0.2 °C
   IR GUN #36 (CF +1.1°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 — Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? — Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? — Yes No
3. Shippers' packing slip attached to the cooler(s)? — Yes No
4. Did custody papers accompany the sample(s)? — Yes No
5. Were the custody papers relinquished & signed in the appropriate place? — Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? — Yes No
7. Did all bottles arrive in good condition (Unbroken)? — Yes No
8. Could all bottle labels be reconciled with the COC? — Yes No
9. Were correct bottle(s) used for the test(s) indicated? — Yes No
10. Sufficient quantity received to perform indicated analyses? — Yes No
11. Are these work share samples? — Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? — Yes No NA pH Strip Lot# **HC682547**
12. Were VOAs on the COC? — Yes No
13. Were air bubbles >6 mm in any VOA vials? — Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 370 — Yes No
15. Was a LL Hg or Me Hg trip blank present? _____ — Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
20161202UAW09-60V54N	240-72811-P-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161202UAW09-60V54N	240-72811-Q-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161202UAW09-60V54N	240-72811-R-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161202CINFB-1	240-72811-F-2	Plastic 500ml - with Nitric Acid	<2	_____	_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-72916-1
Client Project/Site: R & H Cincinnati - GW Sampling

For:
Parsons Corporation
2443 Crowne Point Drive
Cincinnati, Ohio 45241

Attn: Karen Fields

Patrick O'Meara

Authorized for release by:
12/16/2016 10:46:53 AM

Patrick O'Meara, Manager of Project Management
(330)966-5725
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

RELEASED
DATE 6-28-17
RIN # 2017-007322
INITIALS JA

Job ID: 240-72916-1

Laboratory: TestAmerica Canton

Narrative

4

CASE NARRATIVE

Client: Parsons Corporation

Project: R & H Cincinnati - GW Sampling

Report Number: 240-72916-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/7/2016 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 20161206UAW01-80V76N (240-72916-1), 20161206UAW01-30V28.5N (240-72916-2), 20161206UAW25-20V20N (240-72916-3), 20161205UAW09-20V24N (240-72916-4) and TRIP BLANK (240-72916-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/13/2016.

The laboratory control sample (LCS) for 259201 recovered outside control limits for Carbon Tetrachloride. This analyte was biased high in the LCS and was not detected in the following associated samples; therefore, the data have been reported.20161206UAW01-80V76N (240-72916-1), 20161206UAW01-30V28.5N (240-72916-2), 20161206UAW25-20V20N (240-72916-3), 20161205UAW09-20V24N (240-72916-4), and TRIP BLANK (240-72916-5).

1,1,2,2-Tetrachloroethane and Styrene failed the recovery criteria low for the MS of sample 280-91908-2 in batch 240-259201. Trichloroethene failed the recovery criteria high. For the MSD of sample 280-91908-2 in batch 240-259201, 1,1,2,2-Tetrachloroethane and Styrene failed the recovery criteria low. 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-Chloropropane and Trichloroethene failed the recovery criteria high. Also, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,2,4-Trichlorobenzene and Cyclohexane exceeded the RPD limit.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 240-72916-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 20161206UAW01-80V76N (240-72916-1), 20161206UAW01-30V28.5N (240-72916-2), 20161206UAW25-20V20N (240-72916-3) and 20161205UAW09-20V24N (240-72916-4) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/12/2016 and analyzed on 12/14/2016.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Caprolactam and Di-n-butyl phthalate were detected in method blank MB 240-259058/5-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The continuing calibration verification (CCV) associated with batch 259340 recovered above the upper control limit for 3-Nitroaniline and Pentachlorophenol. The following samples associated with this CCV were non-detect for the affected analytes; therefore, the data have been reported: 20161206UAW01-80V76N (240-72916-1), 20161206UAW01-30V28.5N (240-72916-2), 20161206UAW25-20V20N (240-72916-3) and 20161205UAW09-20V24N (240-72916-4).

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-259058.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICP)

Samples 20161206UAW01-80V76N (240-72916-1), 20161206UAW01-30V28.5N (240-72916-2), 20161206UAW25-20V20N (240-72916-3) and 20161205UAW09-20V24N (240-72916-4) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/08/2016 and analyzed on 12/09/2016.

Iron was detected in method blank MB 240-258634/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples 20161206UAW01-80V76N (240-72916-1), 20161206UAW01-30V28.5N (240-72916-2), 20161206UAW25-20V20N (240-72916-3) and 20161205UAW09-20V24N (240-72916-4) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/08/2016 and analyzed on 12/09/2016 and 12/12/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72916-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72916-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-72916-1	20161206UAW01-80V76N	Water	12/06/16 12:20	12/07/16 08:00
240-72916-2	20161206UAW01-30V28.5N	Water	12/06/16 12:40	12/07/16 08:00
240-72916-3	20161206UAW25-20V20N	Water	12/06/16 15:15	12/07/16 08:00
240-72916-4	20161205UAW09-20V24N	Water	12/05/16 13:45	12/07/16 08:00
240-72916-5	TRIP BLANK	Water	12/05/16 00:00	12/07/16 08:00

Detection Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72916-1

Client Sample ID: 20161206UAW01-80V76N — Lab Sample ID: 240-72916-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.30	J	1.0	0.30	ug/L	1		8260B	Total/NA
Vinyl chloride	2.9		1.0	0.45	ug/L	1		8260B	Total/NA
Caprolactam	3.3	J B	5.4	0.40	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	0.55	J B	1.1	0.43	ug/L	1		8270C	Total/NA
Barium	280		200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	100000		5000	710	ug/L	1		6010B	Total Recoverable
Cadmium	0.31	J	2.0	0.29	ug/L	1		6010B	Total Recoverable
Iron	8900	B	100	25	ug/L	1		6010B	Total Recoverable
Potassium	1400	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	28000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	420		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	44000		5000	330	ug/L	1		6010B	Total Recoverable
Arsenic	3.8	J	10	3.3	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161206UAW01-30V28.5N — Lab Sample ID: 240-72916-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caprolactam	2.6	J B	5.2	0.39	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	0.45	J B	1.0	0.41	ug/L	1		8270C	Total/NA
Barium	110	J	200	2.4	ug/L	1		6010B	Total Recoverable
Beryllium	0.22	J	5.0	0.21	ug/L	1		6010B	Total Recoverable
Calcium	120000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	220		5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	2400	B	100	25	ug/L	1		6010B	Total Recoverable
Potassium	6400		5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	30000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	580		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	330000		5000	330	ug/L	1		6010B	Total Recoverable
Nickel	47		40	1.6	ug/L	1		6010B	Total Recoverable
Arsenic	4.6	J	10	3.3	ug/L	1		6010B	Total Recoverable
Tin	3.7	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161206UAW25-20V20N — Lab Sample ID: 240-72916-3

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161206UAW25-20V20N (Continued) — Lab Sample ID: 240-72916-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.39	J	1.0	0.32	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	1.8		1.0	0.26	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	0.72	J	1.0	0.23	ug/L	1		8260B	Total/NA
Caprolactam	4.3	J B	5.4	0.40	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	0.45	J B	1.1	0.43	ug/L	1		8270C	Total/NA
Barium	180	J	200	2.4	ug/L	1		6010B	Total Recoverable
Beryllium	0.24	J	5.0	0.21	ug/L	1		6010B	Total Recoverable
Calcium	230000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	120		5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	6600	B	100	25	ug/L	1		6010B	Total Recoverable
Potassium	7800		5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	41000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	590		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	330000		5000	330	ug/L	1		6010B	Total Recoverable
Nickel	30	J	40	1.6	ug/L	1		6010B	Total Recoverable
Arsenic	12		10	3.3	ug/L	1		6010B	Total Recoverable
Tin	29	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161205UAW09-20V24N — Lab Sample ID: 240-72916-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	7.3		1.0	0.31	ug/L	1		8260B	Total/NA
Caprolactam	2.7	J B	5.7	0.42	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	0.49	J B	1.1	0.45	ug/L	1		8270C	Total/NA
Barium	57	J	200	2.4	ug/L	1		6010B	Total Recoverable
Beryllium	0.21	J	5.0	0.21	ug/L	1		6010B	Total Recoverable
Calcium	110000		5000	710	ug/L	1		6010B	Total Recoverable
Cadmium	0.44	J	2.0	0.29	ug/L	1		6010B	Total Recoverable
Chromium	56		5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	170	B	100	25	ug/L	1		6010B	Total Recoverable
Potassium	900	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	30000		5000	230	ug/L	1		6010B	Total Recoverable
Sodium	40000		5000	330	ug/L	1		6010B	Total Recoverable
Nickel	15	J	40	1.6	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72916-1

Client Sample ID: TRIP BLANK **Lab Sample ID: 240-72916-5**

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161206UAW01-80V76N
Date Collected: 12/06/16 12:20
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/13/16 18:38	1
Benzene	1.0	U	1.0	0.28	ug/L			12/13/16 18:38	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/13/16 18:38	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/13/16 18:38	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/13/16 18:38	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/16 18:38	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/13/16 18:38	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/13/16 18:38	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/13/16 18:38	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/13/16 18:38	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/13/16 18:38	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/13/16 18:38	1
cis-1,2-Dichloroethene	**0.30**	**J**	1.0	0.30	ug/L			12/13/16 18:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/13/16 18:38	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/13/16 18:38	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/13/16 18:38	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/13/16 18:38	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/13/16 18:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/13/16 18:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/13/16 18:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/13/16 18:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/13/16 18:38	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/16 18:38	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/13/16 18:38	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/13/16 18:38	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/13/16 18:38	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/13/16 18:38	1
2-Hexanone	10	U	10	1.2	ug/L			12/13/16 18:38	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/13/16 18:38	1
Methyl acetate	10	U	10	1.4	ug/L			12/13/16 18:38	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/13/16 18:38	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/13/16 18:38	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/13/16 18:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/13/16 18:38	1
Styrene	1.0	U	1.0	0.23	ug/L			12/13/16 18:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/13/16 18:38	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/13/16 18:38	1
Toluene	1.0	U	1.0	0.23	ug/L			12/13/16 18:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/13/16 18:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/13/16 18:38	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/13/16 18:38	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/13/16 18:38	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/13/16 18:38	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/13/16 18:38	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/13/16 18:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/13/16 18:38	1
Vinyl chloride	**2.9**		1.0	0.45	ug/L			12/13/16 18:38	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/13/16 18:38	1

Client Sample ID: 20161206UAW01-80V76N
Date Collected: 12/06/16 12:20
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*12/13/16 18:38*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*12/13/16 18:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 132*		*12/13/16 18:38*	*1*
Toluene-d8 (Surr)	*101*		*73 - 124*		*12/13/16 18:38*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.22	U	0.22	0.048	ug/L		12/12/16 10:39	12/14/16 11:35	1
Acenaphthylene	0.22	U	0.22	0.022	ug/L		12/12/16 10:39	12/14/16 11:35	1
Acetophenone	1.1	U	1.1	0.15	ug/L		12/12/16 10:39	12/14/16 11:35	1
Aniline	5.4	U	5.4	0.24	ug/L		12/12/16 10:39	12/14/16 11:35	1
Anthracene	0.22	U	0.22	0.034	ug/L		12/12/16 10:39	12/14/16 11:35	1
Atrazine	2.2	U	2.2	0.13	ug/L		12/12/16 10:39	12/14/16 11:35	1
Benzaldehyde	2.2	U	2.2	0.32	ug/L		12/12/16 10:39	12/14/16 11:35	1
Benzo[a]anthracene	0.22	U	0.22	0.064	ug/L		12/12/16 10:39	12/14/16 11:35	1
Benzo[b]fluoranthene	0.22	U	0.22	0.064	ug/L		12/12/16 10:39	12/14/16 11:35	1
Benzo[k]fluoranthene	0.22	U	0.22	0.052	ug/L		12/12/16 10:39	12/14/16 11:35	1
Benzo[g,h,i]perylene	0.22	U	0.22	0.054	ug/L		12/12/16 10:39	12/14/16 11:35	1
Benzo[a]pyrene	0.22	U	0.22	0.033	ug/L		12/12/16 10:39	12/14/16 11:35	1
Butyl benzyl phthalate	1.1	U	1.1	0.23	ug/L		12/12/16 10:39	12/14/16 11:35	1
1,1'-Biphenyl	1.1	U	1.1	0.13	ug/L		12/12/16 10:39	12/14/16 11:35	1
Bis(2-chloroethoxy)methane	1.1	U	1.1	0.040	ug/L		12/12/16 10:39	12/14/16 11:35	1
Bis(2-chloroethyl)ether	1.1	U	1.1	0.21	ug/L		12/12/16 10:39	12/14/16 11:35	1
Bis(2-ethylhexyl) phthalate	2.2	U	2.2	1.7	ug/L		12/12/16 10:39	12/14/16 11:35	1
4-Bromophenyl phenyl ether	2.2	U	2.2	0.38	ug/L		12/12/16 10:39	12/14/16 11:35	1
Caprolactam	**3.3**	**J B**	5.4	0.40	ug/L		12/12/16 10:39	12/14/16 11:35	1
Carbazole	1.1	U	1.1	0.11	ug/L		12/12/16 10:39	12/14/16 11:35	1
4-Chloroaniline	2.2	U	2.2	0.16	ug/L		12/12/16 10:39	12/14/16 11:35	1
4-Chloro-3-methylphenol	2.2	U	2.2	0.30	ug/L		12/12/16 10:39	12/14/16 11:35	1
2-Chloronaphthalene	1.1	U	1.1	0.13	ug/L		12/12/16 10:39	12/14/16 11:35	1
2-Chlorophenol	1.1	U	1.1	0.14	ug/L		12/12/16 10:39	12/14/16 11:35	1
4-Chlorophenyl phenyl ether	2.2	U	2.2	0.32	ug/L		12/12/16 10:39	12/14/16 11:35	1
Chrysene	0.22	U	0.22	0.038	ug/L		12/12/16 10:39	12/14/16 11:35	1
2-Methylnaphthalene	0.22	U	0.22	0.040	ug/L		12/12/16 10:39	12/14/16 11:35	1
3 & 4 Methylphenol	2.2	U	2.2	0.37	ug/L		12/12/16 10:39	12/14/16 11:35	1
Dibenz(a,h)anthracene	0.22	U	0.22	0.043	ug/L		12/12/16 10:39	12/14/16 11:35	1
Dibenzofuran	1.1	U	1.1	0.15	ug/L		12/12/16 10:39	12/14/16 11:35	1
3,3'-Dichlorobenzidine	5.4	U	5.4	0.38	ug/L		12/12/16 10:39	12/14/16 11:35	1
2,4-Dichlorophenol	2.2	U	2.2	0.32	ug/L		12/12/16 10:39	12/14/16 11:35	1
Diethyl phthalate	1.1	U	1.1	0.14	ug/L		12/12/16 10:39	12/14/16 11:35	1
2,4-Dimethylphenol	2.2	U	2.2	0.34	ug/L		12/12/16 10:39	12/14/16 11:35	1
Dimethyl phthalate	1.1	U	1.1	0.11	ug/L		12/12/16 10:39	12/14/16 11:35	1
4,6-Dinitro-2-methylphenol	5.4	U	5.4	0.57	ug/L		12/12/16 10:39	12/14/16 11:35	1
2,4-Dinitrophenol	43	U	43	6.7	ug/L		12/12/16 10:39	12/14/16 11:35	1
2,4-Dinitrotoluene	5.4	U	5.4	0.28	ug/L		12/12/16 10:39	12/14/16 11:35	1
Di-n-butyl phthalate	**0.55**	**J B**	1.1	0.43	ug/L		12/12/16 10:39	12/14/16 11:35	1
Di-n-octyl phthalate	1.1	U	1.1	0.40	ug/L		12/12/16 10:39	12/14/16 11:35	1
Fluoranthene	0.22	U	0.22	0.029	ug/L		12/12/16 10:39	12/14/16 11:35	1
Fluorene	0.22	U	0.22	0.037	ug/L		12/12/16 10:39	12/14/16 11:35	1
Hexachlorobenzene	1.1	U	1.1	0.13	ug/L		12/12/16 10:39	12/14/16 11:35	1

Client Sample ID: 20161206UAW01-80V76N
Date Collected: 12/06/16 12:20
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.1	U	1.1	0.15	ug/L		12/12/16 10:39	12/14/16 11:35	1
Hexachlorocyclopentadiene	11	U	11	2.7	ug/L		12/12/16 10:39	12/14/16 11:35	1
Hexachloroethane	1.1	U	1.1	0.24	ug/L		12/12/16 10:39	12/14/16 11:35	1
Indeno[1,2,3-cd]pyrene	0.22	U	0.22	0.052	ug/L		12/12/16 10:39	12/14/16 11:35	1
Isophorone	1.1	U	1.1	0.046	ug/L		12/12/16 10:39	12/14/16 11:35	1
2-Methylphenol	1.1	U	1.1	0.20	ug/L		12/12/16 10:39	12/14/16 11:35	1
Naphthalene	0.22	U	0.22	0.047	ug/L		12/12/16 10:39	12/14/16 11:35	1
2-Nitroaniline	2.2	U	2.2	0.33	ug/L		12/12/16 10:39	12/14/16 11:35	1
3-Nitroaniline	2.2	U	2.2	0.29	ug/L		12/12/16 10:39	12/14/16 11:35	1
4-Nitroaniline	2.2	U	2.2	0.26	ug/L		12/12/16 10:39	12/14/16 11:35	1
Nitrobenzene	1.1	U	1.1	0.13	ug/L		12/12/16 10:39	12/14/16 11:35	1
2-Nitrophenol	2.2	U	2.2	0.23	ug/L		12/12/16 10:39	12/14/16 11:35	1
4-Nitrophenol	5.4	U	5.4	0.64	ug/L		12/12/16 10:39	12/14/16 11:35	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.12	ug/L		12/12/16 10:39	12/14/16 11:35	1
N-Nitrosodi-n-propylamine	1.1	U	1.1	0.17	ug/L		12/12/16 10:39	12/14/16 11:35	1
2,2'-oxybis(1-chloropropane)	1.1	U	1.1	0.20	ug/L		12/12/16 10:39	12/14/16 11:35	1
Pentachlorophenol	43	U	43	5.9	ug/L		12/12/16 10:39	12/14/16 11:35	1
Phenanthrene	0.22	U	0.22	0.034	ug/L		12/12/16 10:39	12/14/16 11:35	1
Phenol	1.1	U	1.1	0.16	ug/L		12/12/16 10:39	12/14/16 11:35	1
Pyrene	0.22	U	0.22	0.030	ug/L		12/12/16 10:39	12/14/16 11:35	1
2,4,5-Trichlorophenol	5.4	U	5.4	0.40	ug/L		12/12/16 10:39	12/14/16 11:35	1
2,4,6-Trichlorophenol	5.4	U	5.4	0.28	ug/L		12/12/16 10:39	12/14/16 11:35	1
2,6-Dinitrotoluene	5.4	U	5.4	0.26	ug/L		12/12/16 10:39	12/14/16 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*44 - 120*	*12/12/16 10:39*	*12/14/16 11:35*	*1*
2-Fluorophenol (Surr)	*53*		*26 - 120*	*12/12/16 10:39*	*12/14/16 11:35*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*36 - 120*	*12/12/16 10:39*	*12/14/16 11:35*	*1*
Nitrobenzene-d5 (Surr)	*62*		*44 - 120*	*12/12/16 10:39*	*12/14/16 11:35*	*1*
Phenol-d5 (Surr)	*42*		*16 - 120*	*12/12/16 10:39*	*12/14/16 11:35*	*1*
Terphenyl-d14 (Surr)	*74*		*43 - 120*	*12/12/16 10:39*	*12/14/16 11:35*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/08/16 14:00	12/09/16 15:18	1
Antimony	10	U	10	3.1	ug/L		12/08/16 14:00	12/09/16 15:18	1
Barium	**280**		200	2.4	ug/L		12/08/16 14:00	12/09/16 15:18	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/08/16 14:00	12/09/16 15:18	1
Calcium	**100000**		5000	710	ug/L		12/08/16 14:00	12/09/16 15:18	1
Cadmium	**0.31**	**J**	2.0	0.29	ug/L		12/08/16 14:00	12/09/16 15:18	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/08/16 14:00	12/09/16 15:18	1
Chromium	5.0	U	5.0	0.55	ug/L		12/08/16 14:00	12/09/16 15:18	1
Copper	25	U	25	3.9	ug/L		12/08/16 14:00	12/09/16 15:18	1
Iron	**8900**	**B**	100	25	ug/L		12/08/16 14:00	12/09/16 15:18	1
Potassium	**1400**	**J**	5000	70	ug/L		12/08/16 14:00	12/09/16 15:18	1
Magnesium	**28000**		5000	230	ug/L		12/08/16 14:00	12/09/16 15:18	1
Manganese	**420**		15	5.1	ug/L		12/08/16 14:00	12/09/16 15:18	1
Silver	5.0	U	5.0	0.92	ug/L		12/08/16 14:00	12/09/16 15:18	1
Sodium	**44000**		5000	330	ug/L		12/08/16 14:00	12/09/16 15:18	1
Nickel	40	U	40	1.6	ug/L		12/08/16 14:00	12/09/16 15:18	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72916-1

Client Sample ID: 20161206UAW01-80V76N
Date Collected: 12/06/16 12:20
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-1
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/08/16 14:00	12/09/16 15:18	1
Zinc	50	U	50	16	ug/L		12/08/16 14:00	12/09/16 15:18	1
Arsenic	**3.8**	**J**	10	3.3	ug/L		12/08/16 14:00	12/09/16 15:18	1
Lead	5.0	U	5.0	1.9	ug/L		12/08/16 14:00	12/09/16 15:18	1
Selenium	15	U	15	5.1	ug/L		12/08/16 14:00	12/09/16 15:18	1
Thallium	10	U	10	2.1	ug/L		12/08/16 14:00	12/09/16 15:18	1
Tin	100	U	100	1.8	ug/L		12/08/16 14:00	12/09/16 15:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/08/16 14:00	12/09/16 13:26	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72916-1

Client Sample ID: 20161206UAW01-30V28.5N
Date Collected: 12/06/16 12:40
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/13/16 19:00	1
Benzene	1.0	U	1.0	0.28	ug/L			12/13/16 19:00	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/13/16 19:00	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/13/16 19:00	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/13/16 19:00	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/16 19:00	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/13/16 19:00	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/13/16 19:00	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/13/16 19:00	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/13/16 19:00	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/13/16 19:00	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/13/16 19:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/13/16 19:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/13/16 19:00	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/13/16 19:00	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/13/16 19:00	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/13/16 19:00	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/13/16 19:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/13/16 19:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/13/16 19:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/13/16 19:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/13/16 19:00	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/16 19:00	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/13/16 19:00	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/13/16 19:00	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/13/16 19:00	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/13/16 19:00	1
2-Hexanone	10	U	10	1.2	ug/L			12/13/16 19:00	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/13/16 19:00	1
Methyl acetate	10	U	10	1.4	ug/L			12/13/16 19:00	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/13/16 19:00	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/13/16 19:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/13/16 19:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/13/16 19:00	1
Styrene	1.0	U	1.0	0.23	ug/L			12/13/16 19:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/13/16 19:00	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/13/16 19:00	1
Toluene	1.0	U	1.0	0.23	ug/L			12/13/16 19:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/13/16 19:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/13/16 19:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/13/16 19:00	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/13/16 19:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/13/16 19:00	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/13/16 19:00	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/13/16 19:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/13/16 19:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/13/16 19:00	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/13/16 19:00	1

Client Sample ID: 20161206UAW01-30V28.5N
Date Collected: 12/06/16 12:40
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*12/13/16 19:00*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*12/13/16 19:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 132*		*12/13/16 19:00*	*1*
Toluene-d8 (Surr)	*101*		*73 - 124*		*12/13/16 19:00*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21	U	0.21	0.046	ug/L		12/12/16 10:39	12/14/16 12:00	1
Acenaphthylene	0.21	U	0.21	0.021	ug/L		12/12/16 10:39	12/14/16 12:00	1
Acetophenone	1.0	U	1.0	0.15	ug/L		12/12/16 10:39	12/14/16 12:00	1
Aniline	5.2	U	5.2	0.23	ug/L		12/12/16 10:39	12/14/16 12:00	1
Anthracene	0.21	U	0.21	0.032	ug/L		12/12/16 10:39	12/14/16 12:00	1
Atrazine	2.1	U	2.1	0.12	ug/L		12/12/16 10:39	12/14/16 12:00	1
Benzaldehyde	2.1	U	2.1	0.31	ug/L		12/12/16 10:39	12/14/16 12:00	1
Benzo[a]anthracene	0.21	U	0.21	0.061	ug/L		12/12/16 10:39	12/14/16 12:00	1
Benzo[b]fluoranthene	0.21	U	0.21	0.061	ug/L		12/12/16 10:39	12/14/16 12:00	1
Benzo[k]fluoranthene	0.21	U	0.21	0.050	ug/L		12/12/16 10:39	12/14/16 12:00	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.052	ug/L		12/12/16 10:39	12/14/16 12:00	1
Benzo[a]pyrene	0.21	U	0.21	0.031	ug/L		12/12/16 10:39	12/14/16 12:00	1
Butyl benzyl phthalate	1.0	U	1.0	0.23	ug/L		12/12/16 10:39	12/14/16 12:00	1
1,1'-Biphenyl	1.0	U	1.0	0.13	ug/L		12/12/16 10:39	12/14/16 12:00	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.039	ug/L		12/12/16 10:39	12/14/16 12:00	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.20	ug/L		12/12/16 10:39	12/14/16 12:00	1
Bis(2-ethylhexyl) phthalate	2.1	U	2.1	1.6	ug/L		12/12/16 10:39	12/14/16 12:00	1
4-Bromophenyl phenyl ether	2.1	U	2.1	0.36	ug/L		12/12/16 10:39	12/14/16 12:00	1
Caprolactam	**2.6**	**J B**	5.2	0.39	ug/L		12/12/16 10:39	12/14/16 12:00	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/12/16 10:39	12/14/16 12:00	1
4-Chloroaniline	2.1	U	2.1	0.16	ug/L		12/12/16 10:39	12/14/16 12:00	1
4-Chloro-3-methylphenol	2.1	U	2.1	0.29	ug/L		12/12/16 10:39	12/14/16 12:00	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/12/16 10:39	12/14/16 12:00	1
2-Chlorophenol	1.0	U	1.0	0.14	ug/L		12/12/16 10:39	12/14/16 12:00	1
4-Chlorophenyl phenyl ether	2.1	U	2.1	0.31	ug/L		12/12/16 10:39	12/14/16 12:00	1
Chrysene	0.21	U	0.21	0.036	ug/L		12/12/16 10:39	12/14/16 12:00	1
2-Methylnaphthalene	0.21	U	0.21	0.039	ug/L		12/12/16 10:39	12/14/16 12:00	1
3 & 4 Methylphenol	2.1	U	2.1	0.35	ug/L		12/12/16 10:39	12/14/16 12:00	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.042	ug/L		12/12/16 10:39	12/14/16 12:00	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/12/16 10:39	12/14/16 12:00	1
3,3'-Dichlorobenzidine	5.2	U	5.2	0.37	ug/L		12/12/16 10:39	12/14/16 12:00	1
2,4-Dichlorophenol	2.1	U	2.1	0.31	ug/L		12/12/16 10:39	12/14/16 12:00	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/12/16 10:39	12/14/16 12:00	1
2,4-Dimethylphenol	2.1	U	2.1	0.33	ug/L		12/12/16 10:39	12/14/16 12:00	1
Dimethyl phthalate	1.0	U	1.0	0.11	ug/L		12/12/16 10:39	12/14/16 12:00	1
4,6-Dinitro-2-methylphenol	5.2	U	5.2	0.55	ug/L		12/12/16 10:39	12/14/16 12:00	1
2,4-Dinitrophenol	42	U	42	6.4	ug/L		12/12/16 10:39	12/14/16 12:00	1
2,4-Dinitrotoluene	5.2	U	5.2	0.27	ug/L		12/12/16 10:39	12/14/16 12:00	1
Di-n-butyl phthalate	**0.45**	**J B**	1.0	0.41	ug/L		12/12/16 10:39	12/14/16 12:00	1
Di-n-octyl phthalate	1.0	U	1.0	0.38	ug/L		12/12/16 10:39	12/14/16 12:00	1
Fluoranthene	0.21	U	0.21	0.028	ug/L		12/12/16 10:39	12/14/16 12:00	1
Fluorene	0.21	U	0.21	0.035	ug/L		12/12/16 10:39	12/14/16 12:00	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/12/16 10:39	12/14/16 12:00	1

Client Sample ID: 20161206UAW01-30V28.5N
Date Collected: 12/06/16 12:40
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.15	ug/L		12/12/16 10:39	12/14/16 12:00	1
Hexachlorocyclopentadiene	10	U	10	2.6	ug/L		12/12/16 10:39	12/14/16 12:00	1
Hexachloroethane	1.0	U	1.0	0.23	ug/L		12/12/16 10:39	12/14/16 12:00	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.050	ug/L		12/12/16 10:39	12/14/16 12:00	1
Isophorone	1.0	U	1.0	0.044	ug/L		12/12/16 10:39	12/14/16 12:00	1
2-Methylphenol	1.0	U	1.0	0.20	ug/L		12/12/16 10:39	12/14/16 12:00	1
Naphthalene	0.21	U	0.21	0.045	ug/L		12/12/16 10:39	12/14/16 12:00	1
2-Nitroaniline	2.1	U	2.1	0.32	ug/L		12/12/16 10:39	12/14/16 12:00	1
3-Nitroaniline	2.1	U	2.1	0.28	ug/L		12/12/16 10:39	12/14/16 12:00	1
4-Nitroaniline	2.1	U	2.1	0.25	ug/L		12/12/16 10:39	12/14/16 12:00	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/12/16 10:39	12/14/16 12:00	1
2-Nitrophenol	2.1	U	2.1	0.22	ug/L		12/12/16 10:39	12/14/16 12:00	1
4-Nitrophenol	5.2	U	5.2	0.61	ug/L		12/12/16 10:39	12/14/16 12:00	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.12	ug/L		12/12/16 10:39	12/14/16 12:00	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.17	ug/L		12/12/16 10:39	12/14/16 12:00	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.19	ug/L		12/12/16 10:39	12/14/16 12:00	1
Pentachlorophenol	42	U	42	5.7	ug/L		12/12/16 10:39	12/14/16 12:00	1
Phenanthrene	0.21	U	0.21	0.032	ug/L		12/12/16 10:39	12/14/16 12:00	1
Phenol	1.0	U	1.0	0.16	ug/L		12/12/16 10:39	12/14/16 12:00	1
Pyrene	0.21	U	0.21	0.029	ug/L		12/12/16 10:39	12/14/16 12:00	1
2,4,5-Trichlorophenol	5.2	U	5.2	0.38	ug/L		12/12/16 10:39	12/14/16 12:00	1
2,4,6-Trichlorophenol	5.2	U	5.2	0.27	ug/L		12/12/16 10:39	12/14/16 12:00	1
2,6-Dinitrotoluene	5.2	U	5.2	0.24	ug/L		12/12/16 10:39	12/14/16 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*44 - 120*	*12/12/16 10:39*	*12/14/16 12:00*	*1*
2-Fluorophenol (Surr)	*57*		*26 - 120*	*12/12/16 10:39*	*12/14/16 12:00*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*36 - 120*	*12/12/16 10:39*	*12/14/16 12:00*	*1*
Nitrobenzene-d5 (Surr)	*65*		*44 - 120*	*12/12/16 10:39*	*12/14/16 12:00*	*1*
Phenol-d5 (Surr)	*33*		*16 - 120*	*12/12/16 10:39*	*12/14/16 12:00*	*1*
Terphenyl-d14 (Surr)	*74*		*43 - 120*	*12/12/16 10:39*	*12/14/16 12:00*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/08/16 14:00	12/09/16 15:48	1
Antimony	10	U	10	3.1	ug/L		12/08/16 14:00	12/09/16 15:48	1
Barium	**110**	**J**	200	2.4	ug/L		12/08/16 14:00	12/09/16 15:48	1
Beryllium	**0.22**	**J**	5.0	0.21	ug/L		12/08/16 14:00	12/09/16 15:48	1
Calcium	**120000**		5000	710	ug/L		12/08/16 14:00	12/09/16 15:48	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/08/16 14:00	12/09/16 15:48	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/08/16 14:00	12/09/16 15:48	1
Chromium	**220**		5.0	0.55	ug/L		12/08/16 14:00	12/09/16 15:48	1
Copper	25	U	25	3.9	ug/L		12/08/16 14:00	12/09/16 15:48	1
Iron	**2400**	**B**	100	25	ug/L		12/08/16 14:00	12/09/16 15:48	1
Potassium	**6400**		5000	70	ug/L		12/08/16 14:00	12/09/16 15:48	1
Magnesium	**30000**		5000	230	ug/L		12/08/16 14:00	12/09/16 15:48	1
Manganese	**580**		15	5.1	ug/L		12/08/16 14:00	12/09/16 15:48	1
Silver	5.0	U	5.0	0.92	ug/L		12/08/16 14:00	12/09/16 15:48	1
Sodium	**330000**		5000	330	ug/L		12/08/16 14:00	12/09/16 15:48	1
Nickel	**47**		40	1.6	ug/L		12/08/16 14:00	12/09/16 15:48	1

Client Sample ID: 20161206UAW01-30V28.5N
Date Collected: 12/06/16 12:40
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-2
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/08/16 14:00	12/09/16 15:48	1
Zinc	50	U	50	16	ug/L		12/08/16 14:00	12/09/16 15:48	1
Arsenic	**4.6**	**J**	10	3.3	ug/L		12/08/16 14:00	12/09/16 15:48	1
Lead	5.0	U	5.0	1.9	ug/L		12/08/16 14:00	12/09/16 15:48	1
Selenium	15	U	15	5.1	ug/L		12/08/16 14:00	12/09/16 15:48	1
Thallium	10	U	10	2.1	ug/L		12/08/16 14:00	12/09/16 15:48	1
Tin	**3.7**	**J**	100	1.8	ug/L		12/08/16 14:00	12/09/16 15:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/08/16 14:00	12/12/16 16:58	1

Client Sample ID: 20161206UAW25-20V20N
Date Collected: 12/06/16 15:15
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/13/16 19:22	1
Benzene	1.0	U	1.0	0.28	ug/L			12/13/16 19:22	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/13/16 19:22	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/13/16 19:22	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/13/16 19:22	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/16 19:22	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/13/16 19:22	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/13/16 19:22	1
Chlorobenzene	**0.39**	**J**	1.0	0.32	ug/L			12/13/16 19:22	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/13/16 19:22	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/13/16 19:22	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/13/16 19:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/13/16 19:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/13/16 19:22	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/13/16 19:22	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/13/16 19:22	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/13/16 19:22	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/13/16 19:22	1
1,2-Dichlorobenzene	**1.8**		1.0	0.26	ug/L			12/13/16 19:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/13/16 19:22	1
1,4-Dichlorobenzene	**0.72**	**J**	1.0	0.23	ug/L			12/13/16 19:22	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/13/16 19:22	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/16 19:22	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/13/16 19:22	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/13/16 19:22	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/13/16 19:22	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/13/16 19:22	1
2-Hexanone	10	U	10	1.2	ug/L			12/13/16 19:22	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/13/16 19:22	1
Methyl acetate	10	U	10	1.4	ug/L			12/13/16 19:22	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/13/16 19:22	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/13/16 19:22	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/13/16 19:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/13/16 19:22	1
Styrene	1.0	U	1.0	0.23	ug/L			12/13/16 19:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/13/16 19:22	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/13/16 19:22	1
Toluene	1.0	U	1.0	0.23	ug/L			12/13/16 19:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/13/16 19:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/13/16 19:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/13/16 19:22	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/13/16 19:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/13/16 19:22	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/13/16 19:22	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/13/16 19:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/13/16 19:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/13/16 19:22	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/13/16 19:22	1

Client Sample ID: 20161206UAW25-20V20N
Date Collected: 12/06/16 15:15
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*12/13/16 19:22*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*12/13/16 19:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 132*		*12/13/16 19:22*	*1*
Toluene-d8 (Surr)	*99*		*73 - 124*		*12/13/16 19:22*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.22	U	0.22	0.048	ug/L		12/12/16 10:39	12/14/16 12:24	1
Acenaphthylene	0.22	U	0.22	0.022	ug/L		12/12/16 10:39	12/14/16 12:24	1
Acetophenone	1.1	U	1.1	0.15	ug/L		12/12/16 10:39	12/14/16 12:24	1
Aniline	5.4	U	5.4	0.24	ug/L		12/12/16 10:39	12/14/16 12:24	1
Anthracene	0.22	U	0.22	0.034	ug/L		12/12/16 10:39	12/14/16 12:24	1
Atrazine	2.2	U	2.2	0.13	ug/L		12/12/16 10:39	12/14/16 12:24	1
Benzaldehyde	2.2	U	2.2	0.32	ug/L		12/12/16 10:39	12/14/16 12:24	1
Benzo[a]anthracene	0.22	U	0.22	0.064	ug/L		12/12/16 10:39	12/14/16 12:24	1
Benzo[b]fluoranthene	0.22	U	0.22	0.064	ug/L		12/12/16 10:39	12/14/16 12:24	1
Benzo[k]fluoranthene	0.22	U	0.22	0.052	ug/L		12/12/16 10:39	12/14/16 12:24	1
Benzo[g,h,i]perylene	0.22	U	0.22	0.054	ug/L		12/12/16 10:39	12/14/16 12:24	1
Benzo[a]pyrene	0.22	U	0.22	0.033	ug/L		12/12/16 10:39	12/14/16 12:24	1
Butyl benzyl phthalate	1.1	U	1.1	0.23	ug/L		12/12/16 10:39	12/14/16 12:24	1
1,1'-Biphenyl	1.1	U	1.1	0.13	ug/L		12/12/16 10:39	12/14/16 12:24	1
Bis(2-chloroethoxy)methane	1.1	U	1.1	0.040	ug/L		12/12/16 10:39	12/14/16 12:24	1
Bis(2-chloroethyl)ether	1.1	U	1.1	0.21	ug/L		12/12/16 10:39	12/14/16 12:24	1
Bis(2-ethylhexyl) phthalate	2.2	U	2.2	1.7	ug/L		12/12/16 10:39	12/14/16 12:24	1
4-Bromophenyl phenyl ether	2.2	U	2.2	0.38	ug/L		12/12/16 10:39	12/14/16 12:24	1
Caprolactam	**4.3**	**J B**	5.4	0.40	ug/L		12/12/16 10:39	12/14/16 12:24	1
Carbazole	1.1	U	1.1	0.11	ug/L		12/12/16 10:39	12/14/16 12:24	1
4-Chloroaniline	2.2	U	2.2	0.16	ug/L		12/12/16 10:39	12/14/16 12:24	1
4-Chloro-3-methylphenol	2.2	U	2.2	0.30	ug/L		12/12/16 10:39	12/14/16 12:24	1
2-Chloronaphthalene	1.1	U	1.1	0.13	ug/L		12/12/16 10:39	12/14/16 12:24	1
2-Chlorophenol	1.1	U	1.1	0.14	ug/L		12/12/16 10:39	12/14/16 12:24	1
4-Chlorophenyl phenyl ether	2.2	U	2.2	0.32	ug/L		12/12/16 10:39	12/14/16 12:24	1
Chrysene	0.22	U	0.22	0.038	ug/L		12/12/16 10:39	12/14/16 12:24	1
2-Methylnaphthalene	0.22	U	0.22	0.040	ug/L		12/12/16 10:39	12/14/16 12:24	1
3 & 4 Methylphenol	2.2	U	2.2	0.37	ug/L		12/12/16 10:39	12/14/16 12:24	1
Dibenz(a,h)anthracene	0.22	U	0.22	0.043	ug/L		12/12/16 10:39	12/14/16 12:24	1
Dibenzofuran	1.1	U	1.1	0.15	ug/L		12/12/16 10:39	12/14/16 12:24	1
3,3'-Dichlorobenzidine	5.4	U	5.4	0.38	ug/L		12/12/16 10:39	12/14/16 12:24	1
2,4-Dichlorophenol	2.2	U	2.2	0.32	ug/L		12/12/16 10:39	12/14/16 12:24	1
Diethyl phthalate	1.1	U	1.1	0.14	ug/L		12/12/16 10:39	12/14/16 12:24	1
2,4-Dimethylphenol	2.2	U	2.2	0.34	ug/L		12/12/16 10:39	12/14/16 12:24	1
Dimethyl phthalate	1.1	U	1.1	0.11	ug/L		12/12/16 10:39	12/14/16 12:24	1
4,6-Dinitro-2-methylphenol	5.4	U	5.4	0.57	ug/L		12/12/16 10:39	12/14/16 12:24	1
2,4-Dinitrophenol	43	U	43	6.7	ug/L		12/12/16 10:39	12/14/16 12:24	1
2,4-Dinitrotoluene	5.4	U	5.4	0.28	ug/L		12/12/16 10:39	12/14/16 12:24	1
Di-n-butyl phthalate	**0.45**	**J B**	1.1	0.43	ug/L		12/12/16 10:39	12/14/16 12:24	1
Di-n-octyl phthalate	1.1	U	1.1	0.40	ug/L		12/12/16 10:39	12/14/16 12:24	1
Fluoranthene	0.22	U	0.22	0.029	ug/L		12/12/16 10:39	12/14/16 12:24	1
Fluorene	0.22	U	0.22	0.037	ug/L		12/12/16 10:39	12/14/16 12:24	1
Hexachlorobenzene	1.1	U	1.1	0.13	ug/L		12/12/16 10:39	12/14/16 12:24	1

Client Sample ID: 20161206UAW25-20V20N
Date Collected: 12/06/16 15:15
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.1	U	1.1	0.15	ug/L		12/12/16 10:39	12/14/16 12:24	1
Hexachlorocyclopentadiene	11	U	11	2.7	ug/L		12/12/16 10:39	12/14/16 12:24	1
Hexachloroethane	1.1	U	1.1	0.24	ug/L		12/12/16 10:39	12/14/16 12:24	1
Indeno[1,2,3-cd]pyrene	0.22	U	0.22	0.052	ug/L		12/12/16 10:39	12/14/16 12:24	1
Isophorone	1.1	U	1.1	0.046	ug/L		12/12/16 10:39	12/14/16 12:24	1
2-Methylphenol	1.1	U	1.1	0.20	ug/L		12/12/16 10:39	12/14/16 12:24	1
Naphthalene	0.22	U	0.22	0.047	ug/L		12/12/16 10:39	12/14/16 12:24	1
2-Nitroaniline	2.2	U	2.2	0.33	ug/L		12/12/16 10:39	12/14/16 12:24	1
3-Nitroaniline	2.2	U	2.2	0.29	ug/L		12/12/16 10:39	12/14/16 12:24	1
4-Nitroaniline	2.2	U	2.2	0.26	ug/L		12/12/16 10:39	12/14/16 12:24	1
Nitrobenzene	1.1	U	1.1	0.13	ug/L		12/12/16 10:39	12/14/16 12:24	1
2-Nitrophenol	2.2	U	2.2	0.23	ug/L		12/12/16 10:39	12/14/16 12:24	1
4-Nitrophenol	5.4	U	5.4	0.64	ug/L		12/12/16 10:39	12/14/16 12:24	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.12	ug/L		12/12/16 10:39	12/14/16 12:24	1
N-Nitrosodi-n-propylamine	1.1	U	1.1	0.17	ug/L		12/12/16 10:39	12/14/16 12:24	1
2,2'-oxybis(1-chloropropane)	1.1	U	1.1	0.20	ug/L		12/12/16 10:39	12/14/16 12:24	1
Pentachlorophenol	43	U	43	5.9	ug/L		12/12/16 10:39	12/14/16 12:24	1
Phenanthrene	0.22	U	0.22	0.034	ug/L		12/12/16 10:39	12/14/16 12:24	1
Phenol	1.1	U	1.1	0.16	ug/L		12/12/16 10:39	12/14/16 12:24	1
Pyrene	0.22	U	0.22	0.030	ug/L		12/12/16 10:39	12/14/16 12:24	1
2,4,5-Trichlorophenol	5.4	U	5.4	0.40	ug/L		12/12/16 10:39	12/14/16 12:24	1
2,4,6-Trichlorophenol	5.4	U	5.4	0.28	ug/L		12/12/16 10:39	12/14/16 12:24	1
2,6-Dinitrotoluene	5.4	U	5.4	0.26	ug/L		12/12/16 10:39	12/14/16 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*44 - 120*	*12/12/16 10:39*	*12/14/16 12:24*	*1*
2-Fluorophenol (Surr)	*79*		*26 - 120*	*12/12/16 10:39*	*12/14/16 12:24*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*36 - 120*	*12/12/16 10:39*	*12/14/16 12:24*	*1*
Nitrobenzene-d5 (Surr)	*71*		*44 - 120*	*12/12/16 10:39*	*12/14/16 12:24*	*1*
Phenol-d5 (Surr)	*46*		*16 - 120*	*12/12/16 10:39*	*12/14/16 12:24*	*1*
Terphenyl-d14 (Surr)	*83*		*43 - 120*	*12/12/16 10:39*	*12/14/16 12:24*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/08/16 14:00	12/09/16 15:52	1
Antimony	10	U	10	3.1	ug/L		12/08/16 14:00	12/09/16 15:52	1
Barium	**180**	**J**	200	2.4	ug/L		12/08/16 14:00	12/09/16 15:52	1
Beryllium	**0.24**	**J**	5.0	0.21	ug/L		12/08/16 14:00	12/09/16 15:52	1
Calcium	**230000**		5000	710	ug/L		12/08/16 14:00	12/09/16 15:52	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/08/16 14:00	12/09/16 15:52	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/08/16 14:00	12/09/16 15:52	1
Chromium	**120**		5.0	0.55	ug/L		12/08/16 14:00	12/09/16 15:52	1
Copper	25	U	25	3.9	ug/L		12/08/16 14:00	12/09/16 15:52	1
Iron	**6600**	**B**	100	25	ug/L		12/08/16 14:00	12/09/16 15:52	1
Potassium	**7800**		5000	70	ug/L		12/08/16 14:00	12/09/16 15:52	1
Magnesium	**41000**		5000	230	ug/L		12/08/16 14:00	12/09/16 15:52	1
Manganese	**590**		15	5.1	ug/L		12/08/16 14:00	12/09/16 15:52	1
Silver	5.0	U	5.0	0.92	ug/L		12/08/16 14:00	12/09/16 15:52	1
Sodium	**330000**		5000	330	ug/L		12/08/16 14:00	12/09/16 15:52	1
Nickel	**30**	**J**	40	1.6	ug/L		12/08/16 14:00	12/09/16 15:52	1

Client Sample ID: 20161206UAW25-20V20N
Date Collected: 12/06/16 15:15
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-3
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/08/16 14:00	12/09/16 15:52	1
Zinc	50	U	50	16	ug/L		12/08/16 14:00	12/09/16 15:52	1
Arsenic	**12**		10	3.3	ug/L		12/08/16 14:00	12/09/16 15:52	1
Lead	5.0	U	5.0	1.9	ug/L		12/08/16 14:00	12/09/16 15:52	1
Selenium	15	U	15	5.1	ug/L		12/08/16 14:00	12/09/16 15:52	1
Thallium	10	U	10	2.1	ug/L		12/08/16 14:00	12/09/16 15:52	1
Tin	**29**	**J**	100	1.8	ug/L		12/08/16 14:00	12/09/16 15:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/08/16 14:00	12/12/16 17:04	1

Client Sample ID: 20161205UAW09-20V24N
Date Collected: 12/05/16 13:45
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/13/16 19:45	1
Benzene	1.0	U	1.0	0.28	ug/L			12/13/16 19:45	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/13/16 19:45	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/13/16 19:45	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/13/16 19:45	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/16 19:45	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/13/16 19:45	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/13/16 19:45	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/13/16 19:45	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/13/16 19:45	1
Chloroform	**7.3**		1.0	0.31	ug/L			12/13/16 19:45	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/13/16 19:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/13/16 19:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/13/16 19:45	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/13/16 19:45	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/13/16 19:45	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/13/16 19:45	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/13/16 19:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/13/16 19:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/13/16 19:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/13/16 19:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/13/16 19:45	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/16 19:45	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/13/16 19:45	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/13/16 19:45	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/13/16 19:45	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/13/16 19:45	1
2-Hexanone	10	U	10	1.2	ug/L			12/13/16 19:45	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/13/16 19:45	1
Methyl acetate	10	U	10	1.4	ug/L			12/13/16 19:45	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/13/16 19:45	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/13/16 19:45	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/13/16 19:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/13/16 19:45	1
Styrene	1.0	U	1.0	0.23	ug/L			12/13/16 19:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/13/16 19:45	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/13/16 19:45	1
Toluene	1.0	U	1.0	0.23	ug/L			12/13/16 19:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/13/16 19:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/13/16 19:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/13/16 19:45	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/13/16 19:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/13/16 19:45	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/13/16 19:45	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/13/16 19:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/13/16 19:45	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/13/16 19:45	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/13/16 19:45	1

Client Sample ID: 20161205UAW09-20V24N
Date Collected: 12/05/16 13:45
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*12/13/16 19:45*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*12/13/16 19:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 132*		*12/13/16 19:45*	*1*
Toluene-d8 (Surr)	*100*		*73 - 124*		*12/13/16 19:45*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.23	U	0.23	0.050	ug/L		12/12/16 10:39	12/14/16 12:49	1
Acenaphthylene	0.23	U	0.23	0.023	ug/L		12/12/16 10:39	12/14/16 12:49	1
Acetophenone	1.1	U	1.1	0.16	ug/L		12/12/16 10:39	12/14/16 12:49	1
Aniline	5.7	U	5.7	0.25	ug/L		12/12/16 10:39	12/14/16 12:49	1
Anthracene	0.23	U	0.23	0.035	ug/L		12/12/16 10:39	12/14/16 12:49	1
Atrazine	2.3	U	2.3	0.13	ug/L		12/12/16 10:39	12/14/16 12:49	1
Benzaldehyde	2.3	U	2.3	0.34	ug/L		12/12/16 10:39	12/14/16 12:49	1
Benzo[a]anthracene	0.23	U	0.23	0.067	ug/L		12/12/16 10:39	12/14/16 12:49	1
Benzo[b]fluoranthene	0.23	U	0.23	0.067	ug/L		12/12/16 10:39	12/14/16 12:49	1
Benzo[k]fluoranthene	0.23	U	0.23	0.055	ug/L		12/12/16 10:39	12/14/16 12:49	1
Benzo[g,h,i]perylene	0.23	U	0.23	0.057	ug/L		12/12/16 10:39	12/14/16 12:49	1
Benzo[a]pyrene	0.23	U	0.23	0.034	ug/L		12/12/16 10:39	12/14/16 12:49	1
Butyl benzyl phthalate	1.1	U	1.1	0.25	ug/L		12/12/16 10:39	12/14/16 12:49	1
1,1'-Biphenyl	1.1	U	1.1	0.14	ug/L		12/12/16 10:39	12/14/16 12:49	1
Bis(2-chloroethoxy)methane	1.1	U	1.1	0.042	ug/L		12/12/16 10:39	12/14/16 12:49	1
Bis(2-chloroethyl)ether	1.1	U	1.1	0.22	ug/L		12/12/16 10:39	12/14/16 12:49	1
Bis(2-ethylhexyl) phthalate	2.3	U	2.3	1.7	ug/L		12/12/16 10:39	12/14/16 12:49	1
4-Bromophenyl phenyl ether	2.3	U	2.3	0.39	ug/L		12/12/16 10:39	12/14/16 12:49	1
Caprolactam	**2.7**	**J B**	5.7	0.42	ug/L		12/12/16 10:39	12/14/16 12:49	1
Carbazole	1.1	U	1.1	0.12	ug/L		12/12/16 10:39	12/14/16 12:49	1
4-Chloroaniline	2.3	U	2.3	0.17	ug/L		12/12/16 10:39	12/14/16 12:49	1
4-Chloro-3-methylphenol	2.3	U	2.3	0.32	ug/L		12/12/16 10:39	12/14/16 12:49	1
2-Chloronaphthalene	1.1	U	1.1	0.13	ug/L		12/12/16 10:39	12/14/16 12:49	1
2-Chlorophenol	1.1	U	1.1	0.15	ug/L		12/12/16 10:39	12/14/16 12:49	1
4-Chlorophenyl phenyl ether	2.3	U	2.3	0.33	ug/L		12/12/16 10:39	12/14/16 12:49	1
Chrysene	0.23	U	0.23	0.040	ug/L		12/12/16 10:39	12/14/16 12:49	1
2-Methylnaphthalene	0.23	U	0.23	0.042	ug/L		12/12/16 10:39	12/14/16 12:49	1
3 & 4 Methylphenol	2.3	U	2.3	0.38	ug/L		12/12/16 10:39	12/14/16 12:49	1
Dibenz(a,h)anthracene	0.23	U	0.23	0.045	ug/L		12/12/16 10:39	12/14/16 12:49	1
Dibenzofuran	1.1	U	1.1	0.16	ug/L		12/12/16 10:39	12/14/16 12:49	1
3,3'-Dichlorobenzidine	5.7	U	5.7	0.40	ug/L		12/12/16 10:39	12/14/16 12:49	1
2,4-Dichlorophenol	2.3	U	2.3	0.33	ug/L		12/12/16 10:39	12/14/16 12:49	1
Diethyl phthalate	1.1	U	1.1	0.14	ug/L		12/12/16 10:39	12/14/16 12:49	1
2,4-Dimethylphenol	2.3	U	2.3	0.36	ug/L		12/12/16 10:39	12/14/16 12:49	1
Dimethyl phthalate	1.1	U	1.1	0.11	ug/L		12/12/16 10:39	12/14/16 12:49	1
4,6-Dinitro-2-methylphenol	5.7	U	5.7	0.60	ug/L		12/12/16 10:39	12/14/16 12:49	1
2,4-Dinitrophenol	45	U	45	7.0	ug/L		12/12/16 10:39	12/14/16 12:49	1
2,4-Dinitrotoluene	5.7	U	5.7	0.29	ug/L		12/12/16 10:39	12/14/16 12:49	1
Di-n-butyl phthalate	**0.49**	**J B**	1.1	0.45	ug/L		12/12/16 10:39	12/14/16 12:49	1
Di-n-octyl phthalate	1.1	U	1.1	0.41	ug/L		12/12/16 10:39	12/14/16 12:49	1
Fluoranthene	0.23	U	0.23	0.031	ug/L		12/12/16 10:39	12/14/16 12:49	1
Fluorene	0.23	U	0.23	0.039	ug/L		12/12/16 10:39	12/14/16 12:49	1
Hexachlorobenzene	1.1	U	1.1	0.13	ug/L		12/12/16 10:39	12/14/16 12:49	1

Client Sample ID: 20161205UAW09-20V24N
Date Collected: 12/05/16 13:45
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.1	U	1.1	0.16	ug/L		12/12/16 10:39	12/14/16 12:49	1
Hexachlorocyclopentadiene	11	U	11	2.8	ug/L		12/12/16 10:39	12/14/16 12:49	1
Hexachloroethane	1.1	U	1.1	0.25	ug/L		12/12/16 10:39	12/14/16 12:49	1
Indeno[1,2,3-cd]pyrene	0.23	U	0.23	0.055	ug/L		12/12/16 10:39	12/14/16 12:49	1
Isophorone	1.1	U	1.1	0.048	ug/L		12/12/16 10:39	12/14/16 12:49	1
2-Methylphenol	1.1	U	1.1	0.21	ug/L		12/12/16 10:39	12/14/16 12:49	1
Naphthalene	0.23	U	0.23	0.049	ug/L		12/12/16 10:39	12/14/16 12:49	1
2-Nitroaniline	2.3	U	2.3	0.35	ug/L		12/12/16 10:39	12/14/16 12:49	1
3-Nitroaniline	2.3	U	2.3	0.30	ug/L		12/12/16 10:39	12/14/16 12:49	1
4-Nitroaniline	2.3	U	2.3	0.27	ug/L		12/12/16 10:39	12/14/16 12:49	1
Nitrobenzene	1.1	U	1.1	0.13	ug/L		12/12/16 10:39	12/14/16 12:49	1
2-Nitrophenol	2.3	U	2.3	0.24	ug/L		12/12/16 10:39	12/14/16 12:49	1
4-Nitrophenol	5.7	U	5.7	0.67	ug/L		12/12/16 10:39	12/14/16 12:49	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.13	ug/L		12/12/16 10:39	12/14/16 12:49	1
N-Nitrosodi-n-propylamine	1.1	U	1.1	0.18	ug/L		12/12/16 10:39	12/14/16 12:49	1
2,2'-oxybis(1-chloropropane)	1.1	U	1.1	0.21	ug/L		12/12/16 10:39	12/14/16 12:49	1
Pentachlorophenol	45	U	45	6.2	ug/L		12/12/16 10:39	12/14/16 12:49	1
Phenanthrene	0.23	U	0.23	0.035	ug/L		12/12/16 10:39	12/14/16 12:49	1
Phenol	1.1	U	1.1	0.17	ug/L		12/12/16 10:39	12/14/16 12:49	1
Pyrene	0.23	U	0.23	0.032	ug/L		12/12/16 10:39	12/14/16 12:49	1
2,4,5-Trichlorophenol	5.7	U	5.7	0.42	ug/L		12/12/16 10:39	12/14/16 12:49	1
2,4,6-Trichlorophenol	5.7	U	5.7	0.30	ug/L		12/12/16 10:39	12/14/16 12:49	1
2,6-Dinitrotoluene	5.7	U	5.7	0.27	ug/L		12/12/16 10:39	12/14/16 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*44 - 120*	*12/12/16 10:39*	*12/14/16 12:49*	*1*
2-Fluorophenol (Surr)	*60*		*26 - 120*	*12/12/16 10:39*	*12/14/16 12:49*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*36 - 120*	*12/12/16 10:39*	*12/14/16 12:49*	*1*
Nitrobenzene-d5 (Surr)	*65*		*44 - 120*	*12/12/16 10:39*	*12/14/16 12:49*	*1*
Phenol-d5 (Surr)	*33*		*16 - 120*	*12/12/16 10:39*	*12/14/16 12:49*	*1*
Terphenyl-d14 (Surr)	*79*		*43 - 120*	*12/12/16 10:39*	*12/14/16 12:49*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/08/16 14:00	12/09/16 16:10	1
Antimony	10	U	10	3.1	ug/L		12/08/16 14:00	12/09/16 16:10	1
Barium	**57**	**J**	200	2.4	ug/L		12/08/16 14:00	12/09/16 16:10	1
Beryllium	**0.21**	**J**	5.0	0.21	ug/L		12/08/16 14:00	12/09/16 16:10	1
Calcium	**110000**		5000	710	ug/L		12/08/16 14:00	12/09/16 16:10	1
Cadmium	**0.44**	**J**	2.0	0.29	ug/L		12/08/16 14:00	12/09/16 16:10	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/08/16 14:00	12/09/16 16:10	1
Chromium	**56**		5.0	0.55	ug/L		12/08/16 14:00	12/09/16 16:10	1
Copper	25	U	25	3.9	ug/L		12/08/16 14:00	12/09/16 16:10	1
Iron	**170**	**B**	100	25	ug/L		12/08/16 14:00	12/09/16 16:10	1
Potassium	**900**	**J**	5000	70	ug/L		12/08/16 14:00	12/09/16 16:10	1
Magnesium	**30000**		5000	230	ug/L		12/08/16 14:00	12/09/16 16:10	1
Manganese	15	U	15	5.1	ug/L		12/08/16 14:00	12/09/16 16:10	1
Silver	5.0	U	5.0	0.92	ug/L		12/08/16 14:00	12/09/16 16:10	1
Sodium	**40000**		5000	330	ug/L		12/08/16 14:00	12/09/16 16:10	1
Nickel	**15**	**J**	40	1.6	ug/L		12/08/16 14:00	12/09/16 16:10	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72916-1

Client Sample ID: 20161205UAW09-20V24N
Date Collected: 12/05/16 13:45
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-4
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/08/16 14:00	12/09/16 16:10	1
Zinc	50	U	50	16	ug/L		12/08/16 14:00	12/09/16 16:10	1
Arsenic	10	U	10	3.3	ug/L		12/08/16 14:00	12/09/16 16:10	1
Lead	5.0	U	5.0	1.9	ug/L		12/08/16 14:00	12/09/16 16:10	1
Selenium	15	U	15	5.1	ug/L		12/08/16 14:00	12/09/16 16:10	1
Thallium	10	U	10	2.1	ug/L		12/08/16 14:00	12/09/16 16:10	1
Tin	100	U	100	1.8	ug/L		12/08/16 14:00	12/09/16 16:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/08/16 14:00	12/12/16 17:06	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72916-1

Client Sample ID: TRIP BLANK
Date Collected: 12/05/16 00:00
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/13/16 20:07	1
Benzene	1.0	U	1.0	0.28	ug/L			12/13/16 20:07	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/13/16 20:07	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/13/16 20:07	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/13/16 20:07	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/16 20:07	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/13/16 20:07	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/13/16 20:07	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/13/16 20:07	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/13/16 20:07	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/13/16 20:07	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/13/16 20:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/13/16 20:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/13/16 20:07	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/13/16 20:07	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/13/16 20:07	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/13/16 20:07	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/13/16 20:07	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/13/16 20:07	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/13/16 20:07	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/13/16 20:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/13/16 20:07	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/16 20:07	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/13/16 20:07	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/13/16 20:07	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/13/16 20:07	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/13/16 20:07	1
2-Hexanone	10	U	10	1.2	ug/L			12/13/16 20:07	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/13/16 20:07	1
Methyl acetate	10	U	10	1.4	ug/L			12/13/16 20:07	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/13/16 20:07	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/13/16 20:07	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/13/16 20:07	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/13/16 20:07	1
Styrene	1.0	U	1.0	0.23	ug/L			12/13/16 20:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/13/16 20:07	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/13/16 20:07	1
Toluene	1.0	U	1.0	0.23	ug/L			12/13/16 20:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/13/16 20:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/13/16 20:07	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/13/16 20:07	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/13/16 20:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/13/16 20:07	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/13/16 20:07	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/13/16 20:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/13/16 20:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/13/16 20:07	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/13/16 20:07	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72916-1

Client Sample ID: TRIP BLANK
Date Collected: 12/05/16 00:00
Date Received: 12/07/16 08:00

Lab Sample ID: 240-72916-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		73 - 120		12/13/16 20:07	1
Dibromofluoromethane (Surr)	112		80 - 120		12/13/16 20:07	1
1,2-Dichloroethane-d4 (Surr)	101		63 - 132		12/13/16 20:07	1
Toluene-d8 (Surr)	97		73 - 124		12/13/16 20:07	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72916-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(73-120)	(80-120)	(63-132)	(73-124)
240-72916-1	20161206UAW01-80V76N	93	111	101	101
240-72916-2	20161206UAW01-30V28.5N	97	110	100	101
240-72916-3	20161206UAW25-20V20N	103	110	103	99
240-72916-4	20161205UAW09-20V24N	96	114	103	100
240-72916-5	TRIP BLANK	96	112	101	97
280-91908-B-2 MS	Matrix Spike	113	109	98	102
280-91908-B-2 MSD	Matrix Spike Duplicate	112	104	97	103
LCS 240-259201/4	Lab Control Sample	109	111	95	105
MB 240-259201/7	Method Blank	103	112	101	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(44-120)	(26-120)	(36-120)	(44-120)	(16-120)	(43-120)
240-72916-1	20161206UAW01-80V76N	60	53	64	62	42	74
240-72916-2	20161206UAW01-30V28.5N	64	57	67	65	33	74
240-72916-3	20161206UAW25-20V20N	69	79	81	71	46	83
240-72916-4	20161205UAW09-20V24N	64	60	63	65	33	79
LCS 240-259058/6-A	Lab Control Sample	77	75	93	77	46	88
LCSD 240-259058/12-A	Lab Control Sample Dup	89	93	103	86	57	100
MB 240-259058/5-A	Method Blank	60	48	61	62	19	74

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-259201/7
Matrix: Water
Analysis Batch: 259201

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/13/16 11:00	1
Benzene	1.0	U	1.0	0.28	ug/L			12/13/16 11:00	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/13/16 11:00	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/13/16 11:00	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/13/16 11:00	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/13/16 11:00	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/13/16 11:00	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/13/16 11:00	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/13/16 11:00	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/13/16 11:00	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/13/16 11:00	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/13/16 11:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/13/16 11:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/13/16 11:00	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/13/16 11:00	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/13/16 11:00	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/13/16 11:00	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/13/16 11:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/13/16 11:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/13/16 11:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/13/16 11:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/13/16 11:00	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/13/16 11:00	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/13/16 11:00	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/13/16 11:00	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/13/16 11:00	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/13/16 11:00	1
2-Hexanone	10	U	10	1.2	ug/L			12/13/16 11:00	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/13/16 11:00	1
Methyl acetate	10	U	10	1.4	ug/L			12/13/16 11:00	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/13/16 11:00	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/13/16 11:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/13/16 11:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/13/16 11:00	1
Styrene	1.0	U	1.0	0.23	ug/L			12/13/16 11:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/13/16 11:00	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/13/16 11:00	1
Toluene	1.0	U	1.0	0.23	ug/L			12/13/16 11:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/13/16 11:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/13/16 11:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/13/16 11:00	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/13/16 11:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/13/16 11:00	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/13/16 11:00	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/13/16 11:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/13/16 11:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/13/16 11:00	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/13/16 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*12/13/16 11:00*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*12/13/16 11:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 132*		*12/13/16 11:00*	*1*
Toluene-d8 (Surr)	*96*		*73 - 124*		*12/13/16 11:00*	*1*

Lab Sample ID: LCS 240-259201/4
Matrix: Water
Analysis Batch: 259201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	11.7		ug/L		59	46 - 120
Benzene	10.0	10.4		ug/L		104	80 - 120
Bromodichloromethane	10.0	10.8		ug/L		108	76 - 125
Bromoform	10.0	11.1		ug/L		111	52 - 157
Bromomethane	10.0	5.78		ug/L		58	24 - 160
2-Butanone (MEK)	20.0	15.9		ug/L		80	54 - 122
Carbon disulfide	10.0	11.2		ug/L		112	58 - 160
Carbon tetrachloride	10.0	15.1	*	ug/L		151	69 - 149
Chlorobenzene	10.0	10.5		ug/L		105	80 - 120
Chloroethane	10.0	6.23		ug/L		62	24 - 147
Chloroform	10.0	10.9		ug/L		109	80 - 120
Chloromethane	10.0	8.49		ug/L		85	50 - 135
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	80 - 120
cis-1,3-Dichloropropene	10.0	9.97		ug/L		100	75 - 120
Cyclohexane	10.0	10.3		ug/L		103	66 - 135
1,2-Dibromo-3-Chloropropane	10.0	10.1		ug/L		101	46 - 140
1,2-Dibromoethane	10.0	10.6		ug/L		106	80 - 126
1,2-Dichlorobenzene	10.0	9.74		ug/L		97	80 - 120
1,3-Dichlorobenzene	10.0	9.73		ug/L		97	80 - 120
1,4-Dichlorobenzene	10.0	9.79		ug/L		98	80 - 120
Dichlorodifluoromethane	10.0	9.23		ug/L		92	32 - 140
1,1-Dichloroethane	10.0	10.1		ug/L		101	77 - 121
1,2-Dichloroethane	10.0	9.79		ug/L		98	76 - 130
1,1-Dichloroethene	10.0	10.7		ug/L		107	70 - 141
1,2-Dichloropropane	10.0	10.5		ug/L		105	79 - 121
Ethylbenzene	10.0	10.5		ug/L		105	80 - 120
2-Hexanone	20.0	16.3		ug/L		81	56 - 124
Isopropylbenzene	10.0	10.7		ug/L		107	80 - 120
Methyl acetate	50.0	45.5		ug/L		91	65 - 124
Methylcyclohexane	10.0	10.3		ug/L		103	71 - 122
Methylene Chloride	10.0	10.8		ug/L		108	68 - 136
4-Methyl-2-pentanone (MIBK)	20.0	18.7		ug/L		93	60 - 131
Methyl tert-butyl ether	10.0	10.8		ug/L		108	75 - 126
Styrene	10.0	10.7		ug/L		107	80 - 120
1,1,2,2-Tetrachloroethane	10.0	8.96		ug/L		90	61 - 130
Tetrachloroethene	10.0	11.2		ug/L		112	80 - 123
Toluene	10.0	10.4		ug/L		104	80 - 121
trans-1,2-Dichloroethene	10.0	11.2		ug/L		112	80 - 123
trans-1,3-Dichloropropene	10.0	9.11		ug/L		91	65 - 120
1,2,4-Trichlorobenzene	10.0	9.04		ug/L		90	53 - 137
1,1,1-Trichloroethane	10.0	12.8		ug/L		128	79 - 133
1,1,2-Trichloroethane	10.0	10.4		ug/L		104	80 - 120
Trichloroethene	10.0	11.5		ug/L		115	80 - 122
Trichlorofluoromethane	10.0	16.1		ug/L		161	56 - 161

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-259201/4
Matrix: Water
Analysis Batch: 259201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.5		ug/L		125	65 - 151
Vinyl chloride	10.0	8.63		ug/L		86	60 - 129
Xylenes, Total	20.0	20.5		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*
Dibromofluoromethane (Surr)	*111*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 132*
Toluene-d8 (Surr)	*105*		*73 - 124*

Lab Sample ID: 280-91908-B-2 MS
Matrix: Water
Analysis Batch: 259201

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	690	J	2000	2090		ug/L		70	28 - 120
Benzene	100	U	1000	1050		ug/L		105	67 - 126
Bromodichloromethane	100	U	1000	1150		ug/L		115	64 - 127
Bromoform	100	U	1000	1250		ug/L		125	40 - 149
Bromomethane	100	U	1000	337		ug/L		34	10 - 169
2-Butanone (MEK)	200	J	2000	2000		ug/L		90	38 - 123
Carbon disulfide	100	U	1000	1000		ug/L		100	43 - 172
Carbon tetrachloride	100	U *	1000	1190		ug/L		119	51 - 154
Chlorobenzene	100	U	1000	1060		ug/L		106	58 - 128
Chloroethane	100	U	1000	369		ug/L		37	10 - 162
Chloroform	100	U	1000	1090		ug/L		109	67 - 133
Chloromethane	100	U	1000	709		ug/L		71	30 - 143
cis-1,2-Dichloroethene	100	U	1000	1100		ug/L		110	64 - 134
cis-1,3-Dichloropropene	100	U	1000	1050		ug/L		105	58 - 120
Cyclohexane	100	U F2	1000	780		ug/L		78	36 - 144
1,2-Dibromo-3-Chloropropane	200	U F1	1000	1370		ug/L		137	37 - 139
1,2-Dibromoethane	100	U	1000	1130		ug/L		113	64 - 137
1,2-Dichlorobenzene	100	U	1000	1020		ug/L		102	62 - 123
1,3-Dichlorobenzene	100	U	1000	997		ug/L		100	59 - 122
1,4-Dichlorobenzene	100	U	1000	1010		ug/L		101	60 - 122
Dichlorodifluoromethane	100	U	1000	818		ug/L		82	16 - 140
1,1-Dichloroethane	100	U	1000	998		ug/L		100	57 - 135
1,2-Dichloroethane	2200		1000	3290		ug/L		109	62 - 137
1,1-Dichloroethene	100	U	1000	902		ug/L		90	50 - 156
1,2-Dichloropropane	100	U	1000	1100		ug/L		110	66 - 130
Ethylbenzene	100	U	1000	995		ug/L		100	66 - 123
2-Hexanone	1000	U	2000	2310		ug/L		116	41 - 135
Isopropylbenzene	100	U	1000	1030		ug/L		103	57 - 132
Methyl acetate	1000	U	5000	4410		ug/L		88	46 - 135
Methylcyclohexane	100	U	1000	819		ug/L		82	31 - 139
Methylene Chloride	100	U	1000	1100		ug/L		110	48 - 138
4-Methyl-2-pentanone (MIBK)	1000	U	2000	2520		ug/L		126	43 - 143

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-91908-B-2 MS
Matrix: Water
Analysis Batch: 259201

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	100	U	1000	1210		ug/L		121	50 - 137
Styrene	680	F1	1000	1150	F1	ug/L		47	62 - 131
1,1,2,2-Tetrachloroethane	100	U F1 F2	1000	421	F1	ug/L		42	48 - 134
Tetrachloroethene	100	U	1000	989		ug/L		99	54 - 138
Toluene	40	J	1000	1020		ug/L		98	63 - 130
trans-1,2-Dichloroethene	100	U	1000	1030		ug/L		103	70 - 137
trans-1,3-Dichloropropene	100	U	1000	985		ug/L		98	48 - 120
1,2,4-Trichlorobenzene	100	U F1 F2	1000	950		ug/L		95	35 - 140
1,1,1-Trichloroethane	100	U	1000	1100		ug/L		110	55 - 150
1,1,2-Trichloroethane	100	U	1000	1060		ug/L		106	65 - 130
Trichloroethene	100	U F1	1000	1660	F1	ug/L		166	58 - 139
Trichlorofluoromethane	100	U	1000	1360		ug/L		136	26 - 175
1,1,2-Trichloro-1,2,2-trifluoroethane	100	U F2	1000	916		ug/L		92	41 - 149
Vinyl chloride	3400		1000	4190	E	ug/L		79	38 - 147
Xylenes, Total	630		2000	2080		ug/L		73	60 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*73 - 120*
Dibromofluoromethane (Surr)	*109*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 132*
Toluene-d8 (Surr)	*102*		*73 - 124*

Lab Sample ID: 280-91908-B-2 MSD
Matrix: Water
Analysis Batch: 259201

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	690	J	2000	2210		ug/L		76	28 - 120	5	35
Benzene	100	U	1000	1120		ug/L		112	67 - 126	6	31
Bromodichloromethane	100	U	1000	1170		ug/L		117	64 - 127	2	35
Bromoform	100	U	1000	1270		ug/L		127	40 - 149	1	35
Bromomethane	100	U	1000	349		ug/L		35	10 - 169	3	35
2-Butanone (MEK)	200	J	2000	2140		ug/L		97	38 - 123	6	35
Carbon disulfide	100	U	1000	1190		ug/L		119	43 - 172	17	35
Carbon tetrachloride	100	U *	1000	1530		ug/L		153	51 - 154	25	35
Chlorobenzene	100	U	1000	1100		ug/L		110	58 - 128	4	35
Chloroethane	100	U	1000	370		ug/L		37	10 - 162	0	35
Chloroform	100	U	1000	1110		ug/L		111	67 - 133	2	35
Chloromethane	100	U	1000	710		ug/L		71	30 - 143	0	35
cis-1,2-Dichloroethene	100	U	1000	1090		ug/L		109	64 - 134	1	35
cis-1,3-Dichloropropene	100	U	1000	1140		ug/L		114	58 - 120	7	35
Cyclohexane	100	U F2	1000	1120	F2	ug/L		112	36 - 144	36	35
1,2-Dibromo-3-Chloropropane	200	U F1	1000	1720	F1	ug/L		172	37 - 139	23	35
1,2-Dibromoethane	100	U	1000	1160		ug/L		116	64 - 137	2	35
1,2-Dichlorobenzene	100	U	1000	1100		ug/L		110	62 - 123	7	35
1,3-Dichlorobenzene	100	U	1000	1050		ug/L		105	59 - 122	5	35
1,4-Dichlorobenzene	100	U	1000	1060		ug/L		106	60 - 122	5	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-91908-B-2 MSD
Matrix: Water
Analysis Batch: 259201

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	100	U	1000	825		ug/L		83	16 - 140	1	35
1,1-Dichloroethane	100	U	1000	1040		ug/L		104	57 - 135	4	35
1,2-Dichloroethane	2200		1000	3250		ug/L		105	62 - 137	1	35
1,1-Dichloroethene	100	U	1000	1120		ug/L		112	50 - 156	22	35
1,2-Dichloropropane	100	U	1000	1170		ug/L		117	66 - 130	6	35
Ethylbenzene	100	U	1000	1110		ug/L		111	66 - 123	11	34
2-Hexanone	1000	U	2000	2490		ug/L		124	41 - 135	7	35
Isopropylbenzene	100	U	1000	1220		ug/L		122	57 - 132	17	35
Methyl acetate	1000	U	5000	3860		ug/L		77	46 - 135	14	34
Methylcyclohexane	100	U	1000	1140		ug/L		114	31 - 139	33	35
Methylene Chloride	100	U	1000	1110		ug/L		111	48 - 138	1	35
4-Methyl-2-pentanone (MIBK)	1000	U	2000	2690		ug/L		134	43 - 143	6	35
Methyl tert-butyl ether	100	U	1000	1200		ug/L		120	50 - 137	1	35
Styrene	680	F1	1000	1210	F1	ug/L		53	62 - 131	5	35
1,1,2,2-Tetrachloroethane	100	U F1 F2	1000	247	F1 F2	ug/L		25	48 - 134	52	35
Tetrachloroethene	100	U	1000	1210		ug/L		121	54 - 138	20	35
Toluene	40	J	1000	1130		ug/L		109	63 - 130	10	33
trans-1,2-Dichloroethene	100	U	1000	1130		ug/L		113	70 - 137	9	25
trans-1,3-Dichloropropene	100	U	1000	1060		ug/L		106	48 - 120	7	35
1,2,4-Trichlorobenzene	100	U F1 F2	1000	1460	F1 F2	ug/L		146	35 - 140	43	35
1,1,1-Trichloroethane	100	U	1000	1350		ug/L		135	55 - 150	20	35
1,1,2-Trichloroethane	100	U	1000	1090		ug/L		109	65 - 130	3	35
Trichloroethene	100	U F1	1000	1990	F1	ug/L		199	58 - 139	18	35
Trichlorofluoromethane	100	U	1000	1450		ug/L		145	26 - 175	6	35
1,1,2-Trichloro-1,2,2-trifluoroethane	100	U F2	1000	1320	F2	ug/L		132	41 - 149	36	35
Vinyl chloride	3400		1000	4140	E	ug/L		74	38 - 147	1	35
Xylenes, Total	630		2000	2250		ug/L		81	60 - 126	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 132*
Toluene-d8 (Surr)	*103*		*73 - 124*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-259058/5-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259058

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/12/16 10:39	12/14/16 10:22	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/12/16 10:39	12/14/16 10:22	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/12/16 10:39	12/14/16 10:22	1
Aniline	5.0	U	5.0	0.22	ug/L		12/12/16 10:39	12/14/16 10:22	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/12/16 10:39	12/14/16 10:22	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/12/16 10:39	12/14/16 10:22	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-259058/5-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259058

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/12/16 10:39	12/14/16 10:22	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/12/16 10:39	12/14/16 10:22	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/12/16 10:39	12/14/16 10:22	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/12/16 10:39	12/14/16 10:22	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/12/16 10:39	12/14/16 10:22	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/12/16 10:39	12/14/16 10:22	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/12/16 10:39	12/14/16 10:22	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/12/16 10:39	12/14/16 10:22	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/12/16 10:39	12/14/16 10:22	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/12/16 10:39	12/14/16 10:22	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/12/16 10:39	12/14/16 10:22	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/12/16 10:39	12/14/16 10:22	1
Caprolactam	0.984	J	5.0	0.37	ug/L		12/12/16 10:39	12/14/16 10:22	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/12/16 10:39	12/14/16 10:22	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/12/16 10:39	12/14/16 10:22	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/12/16 10:39	12/14/16 10:22	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/12/16 10:39	12/14/16 10:22	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/12/16 10:39	12/14/16 10:22	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/12/16 10:39	12/14/16 10:22	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/12/16 10:39	12/14/16 10:22	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/12/16 10:39	12/14/16 10:22	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/12/16 10:39	12/14/16 10:22	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/12/16 10:39	12/14/16 10:22	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/12/16 10:39	12/14/16 10:22	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/12/16 10:39	12/14/16 10:22	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/12/16 10:39	12/14/16 10:22	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/12/16 10:39	12/14/16 10:22	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/12/16 10:39	12/14/16 10:22	1
Di-n-butyl phthalate	0.506	J	1.0	0.40	ug/L		12/12/16 10:39	12/14/16 10:22	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/12/16 10:39	12/14/16 10:22	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/12/16 10:39	12/14/16 10:22	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/12/16 10:39	12/14/16 10:22	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/12/16 10:39	12/14/16 10:22	1
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/12/16 10:39	12/14/16 10:22	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/12/16 10:39	12/14/16 10:22	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/12/16 10:39	12/14/16 10:22	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/12/16 10:39	12/14/16 10:22	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/12/16 10:39	12/14/16 10:22	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/12/16 10:39	12/14/16 10:22	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/12/16 10:39	12/14/16 10:22	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/12/16 10:39	12/14/16 10:22	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/12/16 10:39	12/14/16 10:22	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/12/16 10:39	12/14/16 10:22	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/12/16 10:39	12/14/16 10:22	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-259058/5-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259058

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/12/16 10:39	12/14/16 10:22	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/12/16 10:39	12/14/16 10:22	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/12/16 10:39	12/14/16 10:22	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/12/16 10:39	12/14/16 10:22	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/12/16 10:39	12/14/16 10:22	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/12/16 10:39	12/14/16 10:22	1
Phenol	1.0	U	1.0	0.15	ug/L		12/12/16 10:39	12/14/16 10:22	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/12/16 10:39	12/14/16 10:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*44 - 120*	*12/12/16 10:39*	*12/14/16 10:22*	*1*
2-Fluorophenol (Surr)	*48*		*26 - 120*	*12/12/16 10:39*	*12/14/16 10:22*	*1*
2,4,6-Tribromophenol (Surr)	*61*		*36 - 120*	*12/12/16 10:39*	*12/14/16 10:22*	*1*
Nitrobenzene-d5 (Surr)	*62*		*44 - 120*	*12/12/16 10:39*	*12/14/16 10:22*	*1*
Phenol-d5 (Surr)	*19*		*16 - 120*	*12/12/16 10:39*	*12/14/16 10:22*	*1*
Terphenyl-d14 (Surr)	*74*		*43 - 120*	*12/12/16 10:39*	*12/14/16 10:22*	*1*

Lab Sample ID: LCS 240-259058/6-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259058

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	23.0		ug/L		72	58 - 120
Acenaphthylene	32.0	23.3		ug/L		73	59 - 120
Acetophenone	32.0	23.3		ug/L		73	62 - 120
Aniline	32.0	23.7		ug/L		74	10 - 120
Anthracene	32.0	24.6		ug/L		77	58 - 120
Atrazine	32.0	31.4		ug/L		98	61 - 120
Benzaldehyde	32.0	24.4		ug/L		76	10 - 120
Benzo[a]anthracene	32.0	25.6		ug/L		80	58 - 120
Benzo[b]fluoranthene	32.0	29.0		ug/L		91	59 - 120
Benzo[k]fluoranthene	32.0	29.5		ug/L		92	61 - 120
Benzo[g,h,i]perylene	32.0	33.7		ug/L		105	41 - 127
Benzo[a]pyrene	32.0	31.8		ug/L		99	63 - 120
Butyl benzyl phthalate	32.0	24.4		ug/L		76	60 - 120
1,1'-Biphenyl	32.0	22.2		ug/L		69	53 - 120
Bis(2-chloroethoxy)methane	32.0	22.6		ug/L		71	63 - 120
Bis(2-chloroethyl)ether	32.0	21.0		ug/L		66	57 - 120
Bis(2-ethylhexyl) phthalate	32.0	25.4		ug/L		79	62 - 120
4-Bromophenyl phenyl ether	32.0	26.0		ug/L		81	55 - 120
Caprolactam	32.0	16.9		ug/L		53	10 - 120
Carbazole	32.0	27.7		ug/L		86	59 - 120
4-Chloroaniline	32.0	30.7		ug/L		96	10 - 120
4-Chloro-3-methylphenol	32.0	24.5		ug/L		76	59 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-259058/6-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259058

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	32.0	22.7		ug/L		71	56 - 120
2-Chlorophenol	32.0	24.5		ug/L		76	62 - 120
4-Chlorophenyl phenyl ether	32.0	26.5		ug/L		83	57 - 120
Chrysene	32.0	25.1		ug/L		78	59 - 120
2-Methylnaphthalene	32.0	22.1		ug/L		69	57 - 120
3 & 4 Methylphenol	32.0	22.4		ug/L		70	53 - 120
Dibenz(a,h)anthracene	32.0	34.0		ug/L		106	39 - 125
Dibenzofuran	32.0	24.2		ug/L		76	58 - 120
3,3'-Dichlorobenzidine	64.0	47.7		ug/L		74	10 - 120
2,4-Dichlorophenol	32.0	27.1		ug/L		85	63 - 120
Diethyl phthalate	32.0	25.5		ug/L		80	64 - 120
2,4-Dimethylphenol	32.0	23.6		ug/L		74	41 - 120
Dimethyl phthalate	32.0	26.3		ug/L		82	63 - 120
4,6-Dinitro-2-methylphenol	64.0	48.7		ug/L		76	40 - 120
2,4-Dinitrophenol	64.0	39.7	J	ug/L		62	20 - 120
2,4-Dinitrotoluene	32.0	26.7		ug/L		84	62 - 120
Di-n-butyl phthalate	32.0	25.0		ug/L		78	58 - 120
Di-n-octyl phthalate	32.0	25.0		ug/L		78	58 - 128
Fluoranthene	32.0	27.9		ug/L		87	59 - 120
Fluorene	32.0	24.6		ug/L		77	57 - 120
Hexachlorobenzene	32.0	25.6		ug/L		80	48 - 120
Hexachlorobutadiene	32.0	22.7		ug/L		71	47 - 120
Hexachlorocyclopentadiene	32.0	15.3		ug/L		48	24 - 120
Hexachloroethane	32.0	18.9		ug/L		59	48 - 120
Indeno[1,2,3-cd]pyrene	32.0	34.8		ug/L		109	49 - 121
Isophorone	32.0	22.0		ug/L		69	66 - 120
2-Methylphenol	32.0	23.7		ug/L		74	55 - 120
Naphthalene	32.0	22.1		ug/L		69	58 - 120
2-Nitroaniline	32.0	25.0		ug/L		78	62 - 120
3-Nitroaniline	32.0	51.5	E	ug/L		161	10 - 171
4-Nitroaniline	32.0	33.9		ug/L		106	32 - 132
Nitrobenzene	32.0	23.5		ug/L		74	63 - 120
2-Nitrophenol	32.0	27.0		ug/L		84	65 - 120
4-Nitrophenol	64.0	28.9		ug/L		45	18 - 120
N-Nitrosodiphenylamine	32.0	24.0		ug/L		75	54 - 120
N-Nitrosodi-n-propylamine	32.0	22.0		ug/L		69	63 - 120
2,2'-oxybis(1-chloropropane)	32.0	19.7		ug/L		62	61 - 120
Pentachlorophenol	64.0	36.8	J	ug/L		57	33 - 120
Phenanthrene	32.0	23.6		ug/L		74	57 - 120
Phenol	32.0	13.8		ug/L		43	21 - 120
Pyrene	32.0	24.4		ug/L		76	57 - 120
2,4,5-Trichlorophenol	32.0	25.0		ug/L		78	61 - 120
2,4,6-Trichlorophenol	32.0	26.8		ug/L		84	57 - 120
2,6-Dinitrotoluene	32.0	28.3		ug/L		89	63 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*44 - 120*
2-Fluorophenol (Surr)	*75*		*26 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-259058/6-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259058

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*36 - 120*
Nitrobenzene-d5 (Surr)	*77*		*44 - 120*
Phenol-d5 (Surr)	*46*		*16 - 120*
Terphenyl-d14 (Surr)	*88*		*43 - 120*

Lab Sample ID: LCSD 240-259058/12-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259058

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			32.0	25.6		ug/L		80	58 - 120	10	35
Acenaphthylene			32.0	25.5		ug/L		80	59 - 120	9	35
Acetophenone			32.0	25.9		ug/L		81	62 - 120	11	35
Aniline			32.0	25.3		ug/L		79	10 - 120	7	35
Anthracene			32.0	27.7		ug/L		86	58 - 120	12	35
Atrazine			32.0	33.9		ug/L		106	61 - 120	7	35
Benzaldehyde			32.0	20.3		ug/L		64	10 - 120	18	35
Benzo[a]anthracene			32.0	27.8		ug/L		87	58 - 120	8	35
Benzo[b]fluoranthene			32.0	32.9		ug/L		103	59 - 120	12	35
Benzo[k]fluoranthene			32.0	32.7		ug/L		102	61 - 120	10	35
Benzo[g,h,i]perylene			32.0	35.2		ug/L		110	41 - 127	4	35
Benzo[a]pyrene			32.0	35.4		ug/L		111	63 - 120	11	35
Butyl benzyl phthalate			32.0	26.4		ug/L		83	60 - 120	8	35
1,1'-Biphenyl			32.0	25.0		ug/L		78	53 - 120	12	35
Bis(2-chloroethoxy)methane			32.0	24.7		ug/L		77	63 - 120	9	35
Bis(2-chloroethyl)ether			32.0	25.6		ug/L		80	57 - 120	20	35
Bis(2-ethylhexyl) phthalate			32.0	27.9		ug/L		87	62 - 120	9	35
4-Bromophenyl phenyl ether			32.0	28.8		ug/L		90	55 - 120	10	35
Caprolactam			32.0	17.7		ug/L		55	10 - 120	4	35
Carbazole			32.0	33.5		ug/L		105	59 - 120	19	35
4-Chloroaniline			32.0	27.4		ug/L		86	10 - 120	11	35
4-Chloro-3-methylphenol			32.0	26.7		ug/L		83	59 - 120	9	35
2-Chloronaphthalene			32.0	25.3		ug/L		79	56 - 120	11	35
2-Chlorophenol			32.0	27.4		ug/L		86	62 - 120	11	35
4-Chlorophenyl phenyl ether			32.0	29.5		ug/L		92	57 - 120	11	35
Chrysene			32.0	27.2		ug/L		85	59 - 120	8	35
2-Methylnaphthalene			32.0	24.6		ug/L		77	57 - 120	11	35
3 & 4 Methylphenol			32.0	25.4		ug/L		79	53 - 120	13	35
Dibenz(a,h)anthracene			32.0	35.3		ug/L		110	39 - 125	4	35
Dibenzofuran			32.0	26.7		ug/L		84	58 - 120	10	35
3,3'-Dichlorobenzidine			64.0	52.1		ug/L		81	10 - 120	9	35
2,4-Dichlorophenol			32.0	29.3		ug/L		92	63 - 120	8	35
Diethyl phthalate			32.0	27.9		ug/L		87	64 - 120	9	35
2,4-Dimethylphenol			32.0	26.5		ug/L		83	41 - 120	12	35
Dimethyl phthalate			32.0	28.8		ug/L		90	63 - 120	9	35
4,6-Dinitro-2-methylphenol			64.0	52.4		ug/L		82	40 - 120	7	35
2,4-Dinitrophenol			64.0	46.2		ug/L		72	20 - 120	15	35
2,4-Dinitrotoluene			32.0	28.7		ug/L		90	62 - 120	7	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 240-259058/12-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259058

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-butyl phthalate			32.0	27.7		ug/L		87	58 - 120	10	35
Di-n-octyl phthalate			32.0	27.6		ug/L		86	58 - 128	10	35
Fluoranthene			32.0	31.0		ug/L		97	59 - 120	10	35
Fluorene			32.0	27.1		ug/L		85	57 - 120	10	35
Hexachlorobenzene			32.0	28.8		ug/L		90	48 - 120	12	35
Hexachlorobutadiene			32.0	27.1		ug/L		85	47 - 120	18	35
Hexachlorocyclopentadiene			32.0	17.7		ug/L		55	24 - 120	15	35
Hexachloroethane			32.0	22.4		ug/L		70	48 - 120	17	35
Indeno[1,2,3-cd]pyrene			32.0	36.2		ug/L		113	49 - 121	4	35
Isophorone			32.0	23.8		ug/L		74	66 - 120	8	35
2-Methylphenol			32.0	26.9		ug/L		84	55 - 120	13	35
Naphthalene			32.0	24.7		ug/L		77	58 - 120	11	35
2-Nitroaniline			32.0	26.5		ug/L		83	62 - 120	6	35
3-Nitroaniline			32.0	45.5		ug/L		142	10 - 171	12	35
4-Nitroaniline			32.0	35.2		ug/L		110	32 - 132	4	35
Nitrobenzene			32.0	25.7		ug/L		80	63 - 120	9	35
2-Nitrophenol			32.0	29.1		ug/L		91	65 - 120	7	35
4-Nitrophenol			64.0	31.5		ug/L		49	18 - 120	9	35
N-Nitrosodiphenylamine			32.0	26.6		ug/L		83	54 - 120	10	35
N-Nitrosodi-n-propylamine			32.0	24.3		ug/L		76	63 - 120	10	35
2,2'-oxybis(1-chloropropane)			32.0	21.7		ug/L		68	61 - 120	9	35
Pentachlorophenol			64.0	42.1		ug/L		66	33 - 120	14	35
Phenanthrene			32.0	26.4		ug/L		83	57 - 120	11	35
Phenol			32.0	16.4		ug/L		51	21 - 120	17	35
Pyrene			32.0	26.9		ug/L		84	57 - 120	10	35
2,4,5-Trichlorophenol			32.0	26.5		ug/L		83	61 - 120	6	35
2,4,6-Trichlorophenol			32.0	29.6		ug/L		92	57 - 120	10	35
2,6-Dinitrotoluene			32.0	31.1		ug/L		97	63 - 120	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*89*		*44 - 120*
2-Fluorophenol (Surr)	*93*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*103*		*36 - 120*
Nitrobenzene-d5 (Surr)	*86*		*44 - 120*
Phenol-d5 (Surr)	*57*		*16 - 120*
Terphenyl-d14 (Surr)	*100*		*43 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-258634/1-A
Matrix: Water
Analysis Batch: 258892

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/08/16 14:00	12/09/16 14:32	1
Antimony	10	U	10	3.1	ug/L		12/08/16 14:00	12/09/16 14:32	1
Barium	200	U	200	2.4	ug/L		12/08/16 14:00	12/09/16 14:32	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/08/16 14:00	12/09/16 14:32	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 240-258634/1-A
Matrix: Water
Analysis Batch: 258892

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	5000	U	5000	710	ug/L		12/08/16 14:00	12/09/16 14:32	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/08/16 14:00	12/09/16 14:32	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/08/16 14:00	12/09/16 14:32	1
Chromium	5.0	U	5.0	0.55	ug/L		12/08/16 14:00	12/09/16 14:32	1
Copper	25	U	25	3.9	ug/L		12/08/16 14:00	12/09/16 14:32	1
Iron	38.2	J	100	25	ug/L		12/08/16 14:00	12/09/16 14:32	1
Potassium	5000	U	5000	70	ug/L		12/08/16 14:00	12/09/16 14:32	1
Magnesium	5000	U	5000	230	ug/L		12/08/16 14:00	12/09/16 14:32	1
Manganese	15	U	15	5.1	ug/L		12/08/16 14:00	12/09/16 14:32	1
Silver	5.0	U	5.0	0.92	ug/L		12/08/16 14:00	12/09/16 14:32	1
Sodium	5000	U	5000	330	ug/L		12/08/16 14:00	12/09/16 14:32	1
Nickel	40	U	40	1.6	ug/L		12/08/16 14:00	12/09/16 14:32	1
Vanadium	10	U	10	4.4	ug/L		12/08/16 14:00	12/09/16 14:32	1
Zinc	50	U	50	16	ug/L		12/08/16 14:00	12/09/16 14:32	1
Arsenic	10	U	10	3.3	ug/L		12/08/16 14:00	12/09/16 14:32	1
Lead	5.0	U	5.0	1.9	ug/L		12/08/16 14:00	12/09/16 14:32	1
Selenium	15	U	15	5.1	ug/L		12/08/16 14:00	12/09/16 14:32	1
Thallium	10	U	10	2.1	ug/L		12/08/16 14:00	12/09/16 14:32	1
Tin	100	U	100	1.8	ug/L		12/08/16 14:00	12/09/16 14:32	1

Lab Sample ID: LCS 240-258634/2-A
Matrix: Water
Analysis Batch: 258892

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	2130		ug/L		106	80 - 120
Antimony	500	521		ug/L		104	80 - 120
Barium	2000	2020		ug/L		101	80 - 120
Beryllium	50.0	50.0		ug/L		100	80 - 120
Calcium	50000	50900		ug/L		102	80 - 120
Cadmium	50.0	54.1		ug/L		108	80 - 120
Cobalt	500	501		ug/L		100	80 - 120
Chromium	200	206		ug/L		103	80 - 120
Copper	250	253		ug/L		101	80 - 120
Iron	1000	1060		ug/L		106	80 - 120
Potassium	50000	51100		ug/L		102	80 - 120
Magnesium	50000	50800		ug/L		102	80 - 120
Manganese	500	520		ug/L		104	80 - 120
Silver	50.0	51.4		ug/L		103	80 - 120
Sodium	50000	51000		ug/L		102	80 - 120
Nickel	500	515		ug/L		103	80 - 120
Vanadium	500	502		ug/L		100	80 - 120
Zinc	500	522		ug/L		104	80 - 120
Arsenic	2000	2130		ug/L		106	80 - 120
Lead	500	505		ug/L		101	80 - 120
Selenium	2000	2120		ug/L		106	80 - 120
Thallium	2000	2020		ug/L		101	80 - 120
Tin	2000	2020		ug/L		101	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-72916-1 MS
Matrix: Water
Analysis Batch: 258892

Client Sample ID: 20161206UAW01-80V76N
Prep Type: Total Recoverable
Prep Batch: 258634

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200	U	2000	2140		ug/L		107	75 - 125
Antimony	10	U	500	521		ug/L		104	75 - 125
Barium	280		2000	2290		ug/L		101	75 - 125
Beryllium	5.0	U	50.0	49.6		ug/L		99	75 - 125
Calcium	100000		50000	150000		ug/L		100	75 - 125
Cadmium	0.31	J	50.0	53.7		ug/L		107	75 - 125
Cobalt	7.0	U	500	497		ug/L		99	75 - 125
Chromium	5.0	U	200	199		ug/L		100	75 - 125
Copper	25	U	250	248		ug/L		99	75 - 125
Iron	8900	B	1000	9920	4	ug/L		97	75 - 125
Potassium	1400	J	50000	52500		ug/L		102	75 - 125
Magnesium	28000		50000	77900		ug/L		100	75 - 125
Manganese	420		500	919		ug/L		100	75 - 125
Silver	5.0	U	50.0	50.8		ug/L		102	75 - 125
Sodium	44000		50000	94800		ug/L		102	75 - 125
Nickel	40	U	500	511		ug/L		102	75 - 125
Vanadium	10	U	500	504		ug/L		101	75 - 125
Zinc	50	U	500	511		ug/L		102	75 - 125
Arsenic	3.8	J	2000	2130		ug/L		106	75 - 125
Lead	5.0	U	500	492		ug/L		98	75 - 125
Selenium	15	U	2000	2110		ug/L		105	75 - 125
Thallium	10	U	2000	1990		ug/L		100	75 - 125
Tin	100	U	2000	2040		ug/L		102	75 - 125

Lab Sample ID: 240-72916-1 MSD
Matrix: Water
Analysis Batch: 258892

Client Sample ID: 20161206UAW01-80V76N
Prep Type: Total Recoverable
Prep Batch: 258634

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	200	U	2000	2140		ug/L		107	75 - 125	0	20
Antimony	10	U	500	519		ug/L		104	75 - 125	0	20
Barium	280		2000	2290		ug/L		101	75 - 125	0	20
Beryllium	5.0	U	50.0	49.8		ug/L		100	75 - 125	1	20
Calcium	100000		50000	150000		ug/L		100	75 - 125	0	20
Cadmium	0.31	J	50.0	53.7		ug/L		107	75 - 125	0	20
Cobalt	7.0	U	500	498		ug/L		100	75 - 125	0	20
Chromium	5.0	U	200	199		ug/L		99	75 - 125	0	20
Copper	25	U	250	246		ug/L		98	75 - 125	1	20
Iron	8900	B	1000	9910	4	ug/L		96	75 - 125	0	20
Potassium	1400	J	50000	52500		ug/L		102	75 - 125	0	20
Magnesium	28000		50000	77900		ug/L		100	75 - 125	0	20
Manganese	420		500	913		ug/L		99	75 - 125	1	20
Silver	5.0	U	50.0	50.3		ug/L		101	75 - 125	1	20
Sodium	44000		50000	94600		ug/L		102	75 - 125	0	20
Nickel	40	U	500	510		ug/L		102	75 - 125	0	20
Vanadium	10	U	500	504		ug/L		101	75 - 125	0	20
Zinc	50	U	500	512		ug/L		102	75 - 125	0	20
Arsenic	3.8	J	2000	2120		ug/L		106	75 - 125	0	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-72916-1 MSD — **Client Sample ID: 20161206UAW01-80V76N**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 258892 — **Prep Batch: 258634**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	5.0	U	500	490		ug/L		98	75 - 125	0	20
Selenium	15	U	2000	2100		ug/L		105	75 - 125	0	20
Thallium	10	U	2000	2000		ug/L		100	75 - 125	0	20
Tin	100	U	2000	2040		ug/L		102	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-258638/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 258872 — **Prep Batch: 258638**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/08/16 14:00	12/09/16 13:16	1

Lab Sample ID: LCS 240-258638/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 258872 — **Prep Batch: 258638**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.94		ug/L		99	80 - 120

Lab Sample ID: 240-72900-A-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 258872 — **Prep Batch: 258638**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	0.956		ug/L		96	80 - 120

Lab Sample ID: 240-72900-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 258872 — **Prep Batch: 258638**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.879		ug/L		88	80 - 120	8	20

GC/MS VOA

Analysis Batch: 259201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72916-1	20161206UAW01-80V76N	Total/NA	Water	8260B	
240-72916-2	20161206UAW01-30V28.5N	Total/NA	Water	8260B	
240-72916-3	20161206UAW25-20V20N	Total/NA	Water	8260B	
240-72916-4	20161205UAW09-20V24N	Total/NA	Water	8260B	
240-72916-5	TRIP BLANK	Total/NA	Water	8260B	
MB 240-259201/7	Method Blank	Total/NA	Water	8260B	
LCS 240-259201/4	Lab Control Sample	Total/NA	Water	8260B	
280-91908-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
280-91908-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 259058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72916-1	20161206UAW01-80V76N	Total/NA	Water	3510C	
240-72916-2	20161206UAW01-30V28.5N	Total/NA	Water	3510C	
240-72916-3	20161206UAW25-20V20N	Total/NA	Water	3510C	
240-72916-4	20161205UAW09-20V24N	Total/NA	Water	3510C	
MB 240-259058/5-A	Method Blank	Total/NA	Water	3510C	
LCS 240-259058/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-259058/12-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 259340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72916-1	20161206UAW01-80V76N	Total/NA	Water	8270C	259058
240-72916-2	20161206UAW01-30V28.5N	Total/NA	Water	8270C	259058
240-72916-3	20161206UAW25-20V20N	Total/NA	Water	8270C	259058
240-72916-4	20161205UAW09-20V24N	Total/NA	Water	8270C	259058
MB 240-259058/5-A	Method Blank	Total/NA	Water	8270C	259058
LCS 240-259058/6-A	Lab Control Sample	Total/NA	Water	8270C	259058
LCSD 240-259058/12-A	Lab Control Sample Dup	Total/NA	Water	8270C	259058

Metals

Prep Batch: 258634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72916-1	20161206UAW01-80V76N	Total Recoverable	Water	3005A	
240-72916-2	20161206UAW01-30V28.5N	Total Recoverable	Water	3005A	
240-72916-3	20161206UAW25-20V20N	Total Recoverable	Water	3005A	
240-72916-4	20161205UAW09-20V24N	Total Recoverable	Water	3005A	
MB 240-258634/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-258634/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-72916-1 MS	20161206UAW01-80V76N	Total Recoverable	Water	3005A	
240-72916-1 MSD	20161206UAW01-80V76N	Total Recoverable	Water	3005A	

Prep Batch: 258638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72916-1	20161206UAW01-80V76N	Total/NA	Water	7470A	
240-72916-2	20161206UAW01-30V28.5N	Total/NA	Water	7470A	
240-72916-3	20161206UAW25-20V20N	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 258638 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72916-4	20161205UAW09-20V24N	Total/NA	Water	7470A	
MB 240-258638/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-258638/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-72900-A-1-E MS	Matrix Spike	Total/NA	Water	7470A	
240-72900-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 258872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72916-1	20161206UAW01-80V76N	Total/NA	Water	7470A	258638
MB 240-258638/1-A	Method Blank	Total/NA	Water	7470A	258638
LCS 240-258638/2-A	Lab Control Sample	Total/NA	Water	7470A	258638
240-72900-A-1-E MS	Matrix Spike	Total/NA	Water	7470A	258638
240-72900-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	258638

Analysis Batch: 258892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72916-1	20161206UAW01-80V76N	Total Recoverable	Water	6010B	258634
240-72916-2	20161206UAW01-30V28.5N	Total Recoverable	Water	6010B	258634
240-72916-3	20161206UAW25-20V20N	Total Recoverable	Water	6010B	258634
240-72916-4	20161205UAW09-20V24N	Total Recoverable	Water	6010B	258634
MB 240-258634/1-A	Method Blank	Total Recoverable	Water	6010B	258634
LCS 240-258634/2-A	Lab Control Sample	Total Recoverable	Water	6010B	258634
240-72916-1 MS	20161206UAW01-80V76N	Total Recoverable	Water	6010B	258634
240-72916-1 MSD	20161206UAW01-80V76N	Total Recoverable	Water	6010B	258634

Analysis Batch: 259146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-72916-2	20161206UAW01-30V28.5N	Total/NA	Water	7470A	258638
240-72916-3	20161206UAW25-20V20N	Total/NA	Water	7470A	258638
240-72916-4	20161205UAW09-20V24N	Total/NA	Water	7470A	258638

Lab Chronicle

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72916-1

Client Sample ID: 20161206UAW01-80V76N — Lab Sample ID: 240-72916-1

Date Collected: 12/06/16 12:20 — **Matrix: Water**
Date Received: 12/07/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259201	12/13/16 18:38	LEE	TAL CAN
Total/NA	Prep	3510C			259058	12/12/16 10:39	KEH	TAL CAN
Total/NA	Analysis	8270C		1	259340	12/14/16 11:35	TMH	TAL CAN
Total Recoverable	Prep	3005A			258634	12/08/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	258892	12/09/16 15:18	KLC	TAL CAN
Total/NA	Prep	7470A			258638	12/08/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	258872	12/09/16 13:26	WKD	TAL CAN

Client Sample ID: 20161206UAW01-30V28.5N — Lab Sample ID: 240-72916-2

Date Collected: 12/06/16 12:40 — **Matrix: Water**
Date Received: 12/07/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259201	12/13/16 19:00	LEE	TAL CAN
Total/NA	Prep	3510C			259058	12/12/16 10:39	KEH	TAL CAN
Total/NA	Analysis	8270C		1	259340	12/14/16 12:00	TMH	TAL CAN
Total Recoverable	Prep	3005A			258634	12/08/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	258892	12/09/16 15:48	KLC	TAL CAN
Total/NA	Prep	7470A			258638	12/08/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	259146	12/12/16 16:58	DSH	TAL CAN

Client Sample ID: 20161206UAW25-20V20N — Lab Sample ID: 240-72916-3

Date Collected: 12/06/16 15:15 — **Matrix: Water**
Date Received: 12/07/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259201	12/13/16 19:22	LEE	TAL CAN
Total/NA	Prep	3510C			259058	12/12/16 10:39	KEH	TAL CAN
Total/NA	Analysis	8270C		1	259340	12/14/16 12:24	TMH	TAL CAN
Total Recoverable	Prep	3005A			258634	12/08/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	258892	12/09/16 15:52	KLC	TAL CAN
Total/NA	Prep	7470A			258638	12/08/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	259146	12/12/16 17:04	DSH	TAL CAN

Client Sample ID: 20161205UAW09-20V24N — Lab Sample ID: 240-72916-4

Date Collected: 12/05/16 13:45 — **Matrix: Water**
Date Received: 12/07/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259201	12/13/16 19:45	LEE	TAL CAN
Total/NA	Prep	3510C			259058	12/12/16 10:39	KEH	TAL CAN
Total/NA	Analysis	8270C		1	259340	12/14/16 12:49	TMH	TAL CAN

Lab Chronicle

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72916-1

Client Sample ID: 20161205UAW09-20V24N

Lab Sample ID: 240-72916-4

Date Collected: 12/05/16 13:45
Matrix: Water
Date Received: 12/07/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			258634	12/08/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	258892	12/09/16 16:10	KLC	TAL CAN
Total/NA	Prep	7470A			258638	12/08/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	259146	12/12/16 17:06	DSH	TAL CAN

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-72916-5

Date Collected: 12/05/16 00:00
Matrix: Water
Date Received: 12/07/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259201	12/13/16 20:07	LEE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-72916-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17
Illinois	NELAP	5	200004	07-31-17
Kansas	NELAP	7	E-10336	01-31-17 *
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16 *
Minnesota	NELAP	5	039-999-348	12-31-16 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17
Nevada	State Program	9	OH-000482008A	07-31-17
New Jersey	NELAP	2	OH001	06-30-17
New York	NELAP	2	10975	03-31-17
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17
Pennsylvania	NELAP	3	68-00340	08-31-17
Texas	NELAP	6	T104704517-15-5	08-31-17
USDA	Federal		P330-13-00319	11-26-16 *
Virginia	NELAP	3	460175	09-14-17
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16 *
Wisconsin	State Program	5	999518190	08-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

CINCINNATI 210501

1.8/C1.8

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: O'Meara, Patrick J	Carrier Tracking No(s):	COC No: 240-39036-17141.9
Client Contact: Jim Shaw	Phone:	E-Mail: patrick.omeara@testamericainc.com		Page: Page 9 of 10
Company: Parsons Corporation				Job #:

Address: 2443 Crowne Point Drive	Due Date Requested:
City: Cincinnati	TAT Requested (days):
State, Zip: OH, 45241	
Phone: 513-317-2984(Tel)	PO #: 4500814287
Email: Jim.Shaw@parsons.com	WO #:
Project Name: R & H Cincinnati - GW Sampling	Project #: 24009047
Site:	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	6010B, 7470A	8270C - BNAs TCL / APP-IX /Aniline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N		
20161206UAW01-80V76N	12/6/16	1220	G	Water	N	N	X	X	X		
20161206UAW01-30V28.5N	12/6/16	1240	G	Water	N	N	X	X	X		
20161206UAW25-20V20N	12/6/16	1515	G	Water	N	N	X	X	X		
20161205UAW09-20V24N	12/5/16	1345	G	Water	N	N	X	X	X		
TRIP BLANK	12/5/16	LAB	G	Water	N	N	X				
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12/6/16 1610	Company: KARSON	Received by:	Date/Time: 12/6/16 1610	Company: TAL
Relinquished by:	Date/Time: 12/6/16 1622	Company: TAL	Received by: QOP	Date/Time: 12-7-16 / 8:00	Company: TAL
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

12/16/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 179916

Canton Facility

Client PARSONS CORP. Site Name _____ Cooler unpacked by: POP

Cooler Received on 12-7-16 Opened on 12-7-16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other CLIPPER

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

☐ See Multiple Cooler Form

1. Cooler temperature upon receipt
   IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 1.8 °C Corrected Cooler Temp. 1.8 °C
   IR GUN #36 (CF +1.1°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 — Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? — Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? — Yes No
3. Shippers' packing slip attached to the cooler(s)? — Yes No
4. Did custody papers accompany the sample(s)? — Yes No
5. Were the custody papers relinquished & signed in the appropriate place? — Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? — Yes No
7. Did all bottles arrive in good condition (Unbroken)? — Yes No
8. Could all bottle labels be reconciled with the COC? — Yes No
9. Were correct bottle(s) used for the test(s) indicated? — Yes No
10. Sufficient quantity received to perform indicated analyses? — Yes No
11. Are these work share samples? — Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? — Yes No NA pH Strip Lot# **HC682547**
12. Were VOAs on the COC? — Yes No
13. Were air bubbles >6 mm in any VOA vials? — Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ — Yes No
15. Was a LL Hg or Me Hg trip blank present? _____ — Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-73120-1
Client Project/Site: R&H Cincinnati - GW Sampling

For:
Parsons Corporation
2443 Crowne Point Drive
Cincinnati, Ohio 45241

Attn: Karen Fields

Authorized for release by:
12/22/2016 2:40:10 PM
Kris Brooks, Project Manager II
(330)966-9790
kris.brooks@testamericainc.com

Designee for

Patrick O'Meara, Manager of Project Management
(330)966-5725
patrick.omeara@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

RELEASED
DATE 6-28-17
RIN # 2017-007322
INITIALS ef

Job ID: 240-73120-1

Laboratory: TestAmerica Canton

Narrative

4

CASE NARRATIVE

Client: Parsons Corporation

Project: R&H Cincinnati - GW Sampling

Report Number: 240-73120-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/9/2016 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.4° C and 0.8° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 20161207UAW02-20V15N (240-73120-1), 20161207UAW04-20V16N (240-73120-2), 20161208MW-EPA-4V19N (240-73120-3), 20161208UAW15-50V42N (240-73120-4), 20161208UAW11-40V39N (240-73120-5), 20161207UAW02-40V41N (240-73120-6), 20161207UAW02-40V41FD (240-73120-7), 20161207UAW03-20V15N (240-73120-8), 20161208UAW26-70V72N (240-73120-9), 20161208UAW15-20V19N (240-73120-10), 20161208UAW11-10V12N (240-73120-11) and TRIP BLANK (240-73120-12) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/17/2016.

Methylene Chloride was detected in method blank MB 240-259893/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Carbon tetrachloride and Trichlorofluoromethane failed the recovery criteria high for LCS 240-259893/4. Refer to the QC report for details.

1,2-Dichlorobenzene failed the recovery criteria low for the MS of sample 20161208UAW26-70V72NMS (240-73120-9) in batch

Job ID: 240-73120-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

240-259893. Carbon tetrachloride failed the recovery criteria high for the MSD of sample 20161208UAW26-70V72NMSD (240-73120-9) in batch 240-259893. Several analytes exceeded the RPD limit. Refer to the QC report for details.

The laboratory control sample (LCS) for 259893 recovered outside control limits for the following analytes: Carbon Tetrachloride and/or Trichlorofluoromethane These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.20161207UAW02-20V15N (240-73120-1), 20161207UAW04-20V16N (240-73120-2), 20161208MW-EPA-4V19N (240-73120-3), 20161208UAW15-50V42N (240-73120-4), 20161208UAW11-40V39N (240-73120-5), 20161207UAW02-40V41N (240-73120-6), 20161207UAW02-40V41FD (240-73120-7), 20161207UAW03-20V15N (240-73120-8), 20161208UAW26-70V72N (240-73120-9), 20161208UAW15-20V19N (240-73120-10), 20161208UAW11-10V12N (240-73120-11), TRIP BLANK (240-73120-12) and (LCS 240-259893/4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 20161207UAW02-20V15N (240-73120-1), 20161207UAW04-20V16N (240-73120-2), 20161208MW-EPA-4V19N (240-73120-3), 20161208UAW15-50V42N (240-73120-4), 20161208UAW11-40V39N (240-73120-5), 20161207UAW02-40V41N (240-73120-6), 20161207UAW02-40V41FD (240-73120-7), 20161207UAW03-20V15N (240-73120-8), 20161208UAW26-70V72N (240-73120-9), 20161208UAW15-20V19N (240-73120-10) and 20161208UAW11-10V12N (240-73120-11) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/13/2016 and 12/15/2016 and analyzed on 12/14/2016 and 12/21/2016.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Caprolactam and Di-n-butyl phthalate were detected in method blank MB 240-259058/5-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Di-n-butyl phthalate was detected in method blank MB 240-259604/17-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

3-Nitroaniline and Caprolactam exceeded the RPD limit for LCSD 240-259604/19-A. Refer to the QC report for details.

Benzaldehyde exceeded the RPD limit for the MSD of sample 20161208UAW26-70V72NMSD (240-73120-9) in batch 240-260366. Refer to the QC report for details.

The continuing calibration verification (CCV) associated with batch 259340 recovered above the upper control limit for 3-Nitroaniline and Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 20161207UAW02-20V15N (240-73120-1), 20161207UAW04-20V16N (240-73120-2), 20161207UAW02-40V41N (240-73120-6), 20161207UAW02-40V41FD (240-73120-7) and 20161207UAW03-20V15N (240-73120-8).

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for prep batch 259604 recovered outside control limits for the following analytes: 3-Nitroaniline. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The LCS/LCSD associated with prep batch 259604 had high RPD's for the analyte Caprolactam. Since the recoveries for both the LCS and the LCSD were within control limits, no corrective action was taken.
20161208MW-EPA-4V19N (240-73120-3), 20161208UAW15-50V42N (240-73120-4), 20161208UAW11-40V39N (240-73120-5), 20161208UAW26-70V72N (240-73120-9), 20161208UAW26-70V72N (240-73120-9[MS]), 20161208UAW26-70V72N (240-73120-9[MSD]), 20161208UAW15-20V19N (240-73120-10) and 20161208UAW11-10V12N (240-73120-11)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICP)

Samples 20161207UAW02-20V15N (240-73120-1), 20161207UAW04-20V16N (240-73120-2), 20161208MW-EPA-4V19N (240-73120-3),

Job ID: 240-73120-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

20161208UAW15-50V42N (240-73120-4), 20161208UAW11-40V39N (240-73120-5), 20161207UAW02-40V41N (240-73120-6), 20161207UAW02-40V41FD (240-73120-7), 20161207UAW03-20V15N (240-73120-8), 20161208UAW26-70V72N (240-73120-9), 20161208UAW15-20V19N (240-73120-10) and 20161208UAW11-10V12N (240-73120-11) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/12/2016 and analyzed on 12/13/2016 and 12/14/2016.

Potassium and Sodium were detected in method blank MB 240-259025/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples 20161207UAW02-20V15N (240-73120-1), 20161207UAW04-20V16N (240-73120-2), 20161208MW-EPA-4V19N (240-73120-3), 20161208UAW15-50V42N (240-73120-4), 20161208UAW11-40V39N (240-73120-5), 20161207UAW02-40V41N (240-73120-6), 20161207UAW02-40V41FD (240-73120-7), 20161207UAW03-20V15N (240-73120-8), 20161208UAW26-70V72N (240-73120-9), 20161208UAW15-20V19N (240-73120-10) and 20161208UAW11-10V12N (240-73120-11) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/12/2016 and analyzed on 12/13/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-73120-1	20161207UAW02-20V15N	Water	12/07/16 12:40	12/09/16 08:00
240-73120-2	20161207UAW04-20V16N	Water	12/07/16 15:13	12/09/16 08:00
240-73120-3	20161208MW-EPA-4V19N	Water	12/08/16 09:48	12/09/16 08:00
240-73120-4	20161208UAW15-50V42N	Water	12/08/16 11:55	12/09/16 08:00
240-73120-5	20161208UAW11-40V39N	Water	12/08/16 14:10	12/09/16 08:00
240-73120-6	20161207UAW02-40V41N	Water	12/07/16 12:30	12/09/16 08:00
240-73120-7	20161207UAW02-40V41FD	Water	12/07/16 12:30	12/09/16 08:00
240-73120-8	20161207UAW03-20V15N	Water	12/07/16 14:45	12/09/16 08:00
240-73120-9	20161208UAW26-70V72N	Water	12/08/16 10:00	12/09/16 08:00
240-73120-10	20161208UAW15-20V19N	Water	12/08/16 12:50	12/09/16 08:00
240-73120-11	20161208UAW11-10V12N	Water	12/08/16 14:40	12/09/16 08:00
240-73120-12	TRIP BLANK	Water	12/08/16 00:00	12/09/16 08:00

Detection Summary

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161207UAW02-20V15N — Lab Sample ID: 240-73120-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	2.2		1.0	0.32	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	13		1.0	0.26	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	0.69	J	1.0	0.32	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	4.2		1.0	0.23	ug/L	1		8260B	Total/NA
Barium	110	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	180000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	11		5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	3100		100	25	ug/L	1		6010B	Total Recoverable
Potassium	2200	J B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	36000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	570		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	240000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	20	J	40	1.6	ug/L	1		6010B	Total Recoverable
Lead	2.7	J	5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	85	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161207UAW04-20V16N — Lab Sample ID: 240-73120-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.7		1.0	0.32	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	1.1		1.0	0.26	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	0.30	J	1.0	0.23	ug/L	1		8260B	Total/NA
Caprolactam	1.7	J B	4.8	0.36	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	0.47	J B	0.96	0.38	ug/L	1		8270C	Total/NA
Aluminum	120	J	200	40	ug/L	1		6010B	Total Recoverable
Antimony	16		10	3.1	ug/L	1		6010B	Total Recoverable
Barium	42	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	69000		5000	710	ug/L	1		6010B	Total Recoverable
Cobalt	2.3	J	7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	170		5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	2300		100	25	ug/L	1		6010B	Total Recoverable
Potassium	2200	J B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	13000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	160		15	5.1	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161207UAW04-20V16N (Continued) — Lab Sample ID: 240-73120-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	64000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	270		40	1.6	ug/L	1		6010B	Total Recoverable
Arsenic	7.8	J	10	3.3	ug/L	1		6010B	Total Recoverable
Tin	60	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161208MW-EPA-4V19N — Lab Sample ID: 240-73120-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	91	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	100000		5000	710	ug/L	1		6010B	Total Recoverable
Cobalt	13		7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	7700		5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	130		25	3.9	ug/L	1		6010B	Total Recoverable
Iron	16000		100	25	ug/L	1		6010B	Total Recoverable
Potassium	2600	J B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	25000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	250		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	240000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	660		40	1.6	ug/L	1		6010B	Total Recoverable
Vanadium	41		10	4.4	ug/L	1		6010B	Total Recoverable
Arsenic	7.3	J	10	3.3	ug/L	1		6010B	Total Recoverable
Thallium	3.3	J	10	2.1	ug/L	1		6010B	Total Recoverable
Tin	30	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161208UAW15-50V42N — Lab Sample ID: 240-73120-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.0	J	10	1.8	ug/L	1		8260B	Total/NA
2-Butanone (MEK)	1.6	J	10	1.0	ug/L	1		8260B	Total/NA
Carbon disulfide	0.44	J	1.0	0.34	ug/L	1		8260B	Total/NA
Chlorobenzene	2.2		1.0	0.32	ug/L	1		8260B	Total/NA
Caprolactam	4.2	J *	5.0	0.37	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	0.51	J B	1.0	0.40	ug/L	1		8270C	Total/NA
Fluoranthene	0.26		0.20	0.027	ug/L	1		8270C	Total/NA
Pentachlorophenol	8.6	J	40	5.5	ug/L	1		8270C	Total/NA
Pyrene	0.23		0.20	0.028	ug/L	1		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161208UAW15-50V42N (Continued) — Lab Sample ID: 240-73120-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	770		200	40	ug/L	1		6010B	Total Recoverable
Antimony	4.2	J	10	3.1	ug/L	1		6010B	Total Recoverable
Barium	40	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	54000		5000	710	ug/L	1		6010B	Total Recoverable
Cadmium	0.93	J	2.0	0.29	ug/L	1		6010B	Total Recoverable
Cobalt	0.87	J	7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	12		5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	45		25	3.9	ug/L	1		6010B	Total Recoverable
Iron	2400		100	25	ug/L	1		6010B	Total Recoverable
Potassium	1800	J B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	4900	J	5000	230	ug/L	1		6010B	Total Recoverable
Manganese	120		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	13000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	6.3	J	40	1.6	ug/L	1		6010B	Total Recoverable
Zinc	190		50	16	ug/L	1		6010B	Total Recoverable
Arsenic	12		10	3.3	ug/L	1		6010B	Total Recoverable
Lead	9.1		5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	290		100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161208UAW11-40V39N — Lab Sample ID: 240-73120-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	3.8		1.0	0.32	ug/L	1		8260B	Total/NA
Chloroform	0.39	J	1.0	0.31	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.0		1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.9		1.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	2.4		1.0	0.30	ug/L	1		8260B	Total/NA
Tetrachloroethene	11		1.0	0.30	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	2.2		1.0	0.23	ug/L	1		8260B	Total/NA
Trichloroethene	1.9		1.0	0.33	ug/L	1		8260B	Total/NA
Aluminum	340		200	40	ug/L	1		6010B	Total Recoverable
Barium	26	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	190000		5000	710	ug/L	1		6010B	Total Recoverable
Cadmium	0.36	J	2.0	0.29	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161208UAW11-40V39N (Continued) — Lab Sample ID: 240-73120-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	3.5	J	7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	74		5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	6.2	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	1100		100	25	ug/L	1		6010B	Total Recoverable
Potassium	4000	J B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	45000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	1400		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	220000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	36	J	40	1.6	ug/L	1		6010B	Total Recoverable
Zinc	18	J	50	16	ug/L	1		6010B	Total Recoverable
Arsenic	3.4	J	10	3.3	ug/L	1		6010B	Total Recoverable
Lead	5.2		5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	60	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161207UAW02-40V41N — Lab Sample ID: 240-73120-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	21		1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	4.7		1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	2.6		1.0	0.27	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.36	J	1.0	0.30	ug/L	1		8260B	Total/NA
Vinyl chloride	6.0		1.0	0.45	ug/L	1		8260B	Total/NA
Caprolactam	1.8	J B	5.2	0.39	ug/L	1		8270C	Total/NA
Aluminum	240		200	40	ug/L	1		6010B	Total Recoverable
Barium	200		200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	150000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	22		5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	11	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	13000		100	25	ug/L	1		6010B	Total Recoverable
Potassium	2300	J B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	33000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	1100		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	87000	B	5000	330	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161207UAW02-40V41N (Continued) — Lab Sample ID: 240-73120-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	1.8	J	40	1.6	ug/L	1		6010B	Total Recoverable
Zinc	35	J	50	16	ug/L	1		6010B	Total Recoverable
Arsenic	3.6	J	10	3.3	ug/L	1		6010B	Total Recoverable
Lead	4.6	J	5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	2.6	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161207UAW02-40V41FD — Lab Sample ID: 240-73120-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	20		1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	4.7		1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	2.6		1.0	0.27	ug/L	1		8260B	Total/NA
Vinyl chloride	5.8		1.0	0.45	ug/L	1		8260B	Total/NA
Caprolactam	2.3	J B	5.4	0.40	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	0.52	J B	1.1	0.43	ug/L	1		8270C	Total/NA
Aluminum	99	J	200	40	ug/L	1		6010B	Total Recoverable
Barium	180	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	150000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	18		5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	6.1	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	9000		100	25	ug/L	1		6010B	Total Recoverable
Potassium	2200	J B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	33000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	1100		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	88000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	1.7	J	40	1.6	ug/L	1		6010B	Total Recoverable
Zinc	16	J	50	16	ug/L	1		6010B	Total Recoverable
Lead	3.4	J	5.0	1.9	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161207UAW03-20V15N — Lab Sample ID: 240-73120-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.77	J	1.0	0.28	ug/L	1		8260B	Total/NA
Chlorobenzene	14		1.0	0.32	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	8.1		1.0	0.26	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	1.8		1.0	0.23	ug/L	1		8260B	Total/NA
Caprolactam	4.5	J B	5.4	0.40	ug/L	1		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161207UAW03-20V15N (Continued) — Lab Sample ID: 240-73120-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.50	J B	1.1	0.43	ug/L	1		8270C	Total/NA
Aluminum	2100		200	40	ug/L	1		6010B	Total Recoverable
Barium	49	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	110000		5000	710	ug/L	1		6010B	Total Recoverable
Cobalt	2.2	J	7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	20		5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	14	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	4400		100	25	ug/L	1		6010B	Total Recoverable
Potassium	4300	J B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	18000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	450		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	220000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	57		40	1.6	ug/L	1		6010B	Total Recoverable
Vanadium	6.8	J	10	4.4	ug/L	1		6010B	Total Recoverable
Zinc	48	J	50	16	ug/L	1		6010B	Total Recoverable
Lead	5.5		5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	350		100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161208UAW26-70V72N — Lab Sample ID: 240-73120-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.59	J	1.0	0.32	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	1.9	F1	1.0	0.26	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	0.38	J	1.0	0.23	ug/L	1		8260B	Total/NA
Barium	260		200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	130000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	2.0	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	3100		100	25	ug/L	1		6010B	Total Recoverable
Potassium	1600	J B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	43000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	280		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	28000	B	5000	330	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161208UAW26-70V72N (Continued) — Lab Sample ID: 240-73120-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	1.6	J	40	1.6	ug/L	1		6010B	Total Recoverable
Arsenic	13		10	3.3	ug/L	1		6010B	Total Recoverable
Lead	2.5	J	5.0	1.9	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161208UAW15-20V19N — Lab Sample ID: 240-73120-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	3.4		1.0	0.31	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	0.45	J	1.0	0.26	ug/L	1		8260B	Total/NA
Caprolactam	5.0	J *	5.2	0.39	ug/L	1		8270C	Total/NA
Barium	73	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	84000		5000	710	ug/L	1		6010B	Total Recoverable
Cobalt	3.2	J	7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	130		5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	3.9	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	1100		100	25	ug/L	1		6010B	Total Recoverable
Potassium	1900	J B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	21000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	17		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	340000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	58		40	1.6	ug/L	1		6010B	Total Recoverable
Lead	2.0	J	5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	59	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161208UAW11-10V12N — Lab Sample ID: 240-73120-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.45	J	1.0	0.28	ug/L	1		8260B	Total/NA
Chlorobenzene	3.7		1.0	0.32	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	14		1.0	0.30	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	6.5		1.0	0.26	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	0.39	J	1.0	0.32	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	2.5		1.0	0.23	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	5.3		1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.31	J	1.0	0.27	ug/L	1		8260B	Total/NA
Toluene	0.58	J	1.0	0.23	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.47	J	1.0	0.29	ug/L	1		8260B	Total/NA
Caprolactam	6.9	*	6.3	0.47	ug/L	1		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161208UAW11-10V12N (Continued) — Lab Sample ID: 240-73120-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	81	J	200	40	ug/L	1		6010B	Total Recoverable
Barium	140	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	140000		5000	710	ug/L	1		6010B	Total Recoverable
Cobalt	0.84	J	7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	2.7	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	4300		100	25	ug/L	1		6010B	Total Recoverable
Potassium	4200	J B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	28000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	2400		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	460000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	9.1	J	40	1.6	ug/L	1		6010B	Total Recoverable
Arsenic	13		10	3.3	ug/L	1		6010B	Total Recoverable
Lead	2.2	J	5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	520		100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-73120-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.63	J	1.0	0.32	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	1.7		1.0	0.26	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	0.66	J	1.0	0.23	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161207UAW02-20V15N
Date Collected: 12/07/16 12:40
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/17/16 11:31	1
Benzene	1.0	U	1.0	0.28	ug/L			12/17/16 11:31	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/17/16 11:31	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/17/16 11:31	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/17/16 11:31	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/17/16 11:31	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/17/16 11:31	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/17/16 11:31	1
Chlorobenzene	**2.2**		1.0	0.32	ug/L			12/17/16 11:31	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/17/16 11:31	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/17/16 11:31	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/17/16 11:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 11:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/17/16 11:31	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/17/16 11:31	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/17/16 11:31	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/17/16 11:31	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/17/16 11:31	1
1,2-Dichlorobenzene	**13**		1.0	0.26	ug/L			12/17/16 11:31	1
1,3-Dichlorobenzene	**0.69**	**J**	1.0	0.32	ug/L			12/17/16 11:31	1
1,4-Dichlorobenzene	**4.2**		1.0	0.23	ug/L			12/17/16 11:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/17/16 11:31	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/17/16 11:31	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/17/16 11:31	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/17/16 11:31	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/17/16 11:31	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/17/16 11:31	1
2-Hexanone	10	U	10	1.2	ug/L			12/17/16 11:31	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/17/16 11:31	1
Methyl acetate	10	U	10	1.4	ug/L			12/17/16 11:31	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/17/16 11:31	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/17/16 11:31	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/17/16 11:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/17/16 11:31	1
Styrene	1.0	U	1.0	0.23	ug/L			12/17/16 11:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/17/16 11:31	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 11:31	1
Toluene	1.0	U	1.0	0.23	ug/L			12/17/16 11:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/17/16 11:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/17/16 11:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/17/16 11:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/17/16 11:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/17/16 11:31	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/17/16 11:31	1
Trichlorofluoromethane	1.0	U *	1.0	0.50	ug/L			12/17/16 11:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/17/16 11:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/17/16 11:31	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/17/16 11:31	1

Client Sample ID: 20161207UAW02-20V15N
Date Collected: 12/07/16 12:40
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*12/17/16 11:31*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*12/17/16 11:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 132*		*12/17/16 11:31*	*1*
Toluene-d8 (Surr)	*96*		*73 - 124*		*12/17/16 11:31*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.041	ug/L		12/13/16 08:16	12/14/16 13:38	1
Acenaphthylene	0.19	U	0.19	0.019	ug/L		12/13/16 08:16	12/14/16 13:38	1
Acetophenone	0.93	U	0.93	0.13	ug/L		12/13/16 08:16	12/14/16 13:38	1
Aniline	4.6	U	4.6	0.20	ug/L		12/13/16 08:16	12/14/16 13:38	1
Anthracene	0.19	U	0.19	0.029	ug/L		12/13/16 08:16	12/14/16 13:38	1
Atrazine	1.9	U	1.9	0.11	ug/L		12/13/16 08:16	12/14/16 13:38	1
Benzaldehyde	1.9	U	1.9	0.27	ug/L		12/13/16 08:16	12/14/16 13:38	1
Benzo[a]anthracene	0.19	U	0.19	0.055	ug/L		12/13/16 08:16	12/14/16 13:38	1
Benzo[b]fluoranthene	0.19	U	0.19	0.055	ug/L		12/13/16 08:16	12/14/16 13:38	1
Benzo[k]fluoranthene	0.19	U	0.19	0.044	ug/L		12/13/16 08:16	12/14/16 13:38	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.046	ug/L		12/13/16 08:16	12/14/16 13:38	1
Benzo[a]pyrene	0.19	U	0.19	0.028	ug/L		12/13/16 08:16	12/14/16 13:38	1
Butyl benzyl phthalate	0.93	U	0.93	0.20	ug/L		12/13/16 08:16	12/14/16 13:38	1
1,1'-Biphenyl	0.93	U	0.93	0.11	ug/L		12/13/16 08:16	12/14/16 13:38	1
Bis(2-chloroethoxy)methane	0.93	U	0.93	0.034	ug/L		12/13/16 08:16	12/14/16 13:38	1
Bis(2-chloroethyl)ether	0.93	U	0.93	0.18	ug/L		12/13/16 08:16	12/14/16 13:38	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	1.4	ug/L		12/13/16 08:16	12/14/16 13:38	1
4-Bromophenyl phenyl ether	1.9	U	1.9	0.32	ug/L		12/13/16 08:16	12/14/16 13:38	1
Caprolactam	4.6	U	4.6	0.34	ug/L		12/13/16 08:16	12/14/16 13:38	1
Carbazole	0.93	U	0.93	0.097	ug/L		12/13/16 08:16	12/14/16 13:38	1
4-Chloroaniline	1.9	U	1.9	0.14	ug/L		12/13/16 08:16	12/14/16 13:38	1
4-Chloro-3-methylphenol	1.9	U	1.9	0.26	ug/L		12/13/16 08:16	12/14/16 13:38	1
2-Chloronaphthalene	0.93	U	0.93	0.11	ug/L		12/13/16 08:16	12/14/16 13:38	1
2-Chlorophenol	0.93	U	0.93	0.12	ug/L		12/13/16 08:16	12/14/16 13:38	1
4-Chlorophenyl phenyl ether	1.9	U	1.9	0.27	ug/L		12/13/16 08:16	12/14/16 13:38	1
Chrysene	0.19	U	0.19	0.032	ug/L		12/13/16 08:16	12/14/16 13:38	1
2-Methylnaphthalene	0.19	U	0.19	0.034	ug/L		12/13/16 08:16	12/14/16 13:38	1
3 & 4 Methylphenol	1.9	U	1.9	0.31	ug/L		12/13/16 08:16	12/14/16 13:38	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.037	ug/L		12/13/16 08:16	12/14/16 13:38	1
Dibenzofuran	0.93	U	0.93	0.13	ug/L		12/13/16 08:16	12/14/16 13:38	1
3,3'-Dichlorobenzidine	4.6	U	4.6	0.33	ug/L		12/13/16 08:16	12/14/16 13:38	1
2,4-Dichlorophenol	1.9	U	1.9	0.27	ug/L		12/13/16 08:16	12/14/16 13:38	1
Diethyl phthalate	0.93	U	0.93	0.12	ug/L		12/13/16 08:16	12/14/16 13:38	1
2,4-Dimethylphenol	1.9	U	1.9	0.29	ug/L		12/13/16 08:16	12/14/16 13:38	1
Dimethyl phthalate	0.93	U	0.93	0.094	ug/L		12/13/16 08:16	12/14/16 13:38	1
4,6-Dinitro-2-methylphenol	4.6	U	4.6	0.49	ug/L		12/13/16 08:16	12/14/16 13:38	1
2,4-Dinitrophenol	37	U	37	5.7	ug/L		12/13/16 08:16	12/14/16 13:38	1
2,4-Dinitrotoluene	4.6	U	4.6	0.24	ug/L		12/13/16 08:16	12/14/16 13:38	1
Di-n-butyl phthalate	0.93	U	0.93	0.37	ug/L		12/13/16 08:16	12/14/16 13:38	1
Di-n-octyl phthalate	0.93	U	0.93	0.34	ug/L		12/13/16 08:16	12/14/16 13:38	1
Fluoranthene	0.19	U	0.19	0.025	ug/L		12/13/16 08:16	12/14/16 13:38	1
Fluorene	0.19	U	0.19	0.031	ug/L		12/13/16 08:16	12/14/16 13:38	1
Hexachlorobenzene	0.93	U	0.93	0.11	ug/L		12/13/16 08:16	12/14/16 13:38	1

Client Sample ID: 20161207UAW02-20V15N
Date Collected: 12/07/16 12:40
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.93	U	0.93	0.13	ug/L		12/13/16 08:16	12/14/16 13:38	1
Hexachlorocyclopentadiene	9.3	U	9.3	2.3	ug/L		12/13/16 08:16	12/14/16 13:38	1
Hexachloroethane	0.93	U	0.93	0.20	ug/L		12/13/16 08:16	12/14/16 13:38	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.044	ug/L		12/13/16 08:16	12/14/16 13:38	1
Isophorone	0.93	U	0.93	0.039	ug/L		12/13/16 08:16	12/14/16 13:38	1
2-Methylphenol	0.93	U	0.93	0.17	ug/L		12/13/16 08:16	12/14/16 13:38	1
Naphthalene	0.19	U	0.19	0.040	ug/L		12/13/16 08:16	12/14/16 13:38	1
2-Nitroaniline	1.9	U	1.9	0.29	ug/L		12/13/16 08:16	12/14/16 13:38	1
3-Nitroaniline	1.9	U	1.9	0.25	ug/L		12/13/16 08:16	12/14/16 13:38	1
4-Nitroaniline	1.9	U	1.9	0.22	ug/L		12/13/16 08:16	12/14/16 13:38	1
Nitrobenzene	0.93	U	0.93	0.11	ug/L		12/13/16 08:16	12/14/16 13:38	1
2-Nitrophenol	1.9	U	1.9	0.19	ug/L		12/13/16 08:16	12/14/16 13:38	1
4-Nitrophenol	4.6	U	4.6	0.54	ug/L		12/13/16 08:16	12/14/16 13:38	1
N-Nitrosodiphenylamine	0.93	U	0.93	0.10	ug/L		12/13/16 08:16	12/14/16 13:38	1
N-Nitrosodi-n-propylamine	0.93	U	0.93	0.15	ug/L		12/13/16 08:16	12/14/16 13:38	1
2,2'-oxybis(1-chloropropane)	0.93	U	0.93	0.17	ug/L		12/13/16 08:16	12/14/16 13:38	1
Pentachlorophenol	37	U	37	5.1	ug/L		12/13/16 08:16	12/14/16 13:38	1
Phenanthrene	0.19	U	0.19	0.029	ug/L		12/13/16 08:16	12/14/16 13:38	1
Phenol	0.93	U	0.93	0.14	ug/L		12/13/16 08:16	12/14/16 13:38	1
Pyrene	0.19	U	0.19	0.026	ug/L		12/13/16 08:16	12/14/16 13:38	1
2,4,5-Trichlorophenol	4.6	U	4.6	0.34	ug/L		12/13/16 08:16	12/14/16 13:38	1
2,4,6-Trichlorophenol	4.6	U	4.6	0.24	ug/L		12/13/16 08:16	12/14/16 13:38	1
2,6-Dinitrotoluene	4.6	U	4.6	0.22	ug/L		12/13/16 08:16	12/14/16 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*44 - 120*	*12/13/16 08:16*	*12/14/16 13:38*	*1*
2-Fluorophenol (Surr)	*82*		*26 - 120*	*12/13/16 08:16*	*12/14/16 13:38*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*36 - 120*	*12/13/16 08:16*	*12/14/16 13:38*	*1*
Nitrobenzene-d5 (Surr)	*70*		*44 - 120*	*12/13/16 08:16*	*12/14/16 13:38*	*1*
Phenol-d5 (Surr)	*52*		*16 - 120*	*12/13/16 08:16*	*12/14/16 13:38*	*1*
Terphenyl-d14 (Surr)	*80*		*43 - 120*	*12/13/16 08:16*	*12/14/16 13:38*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/12/16 14:00	12/13/16 23:15	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/13/16 23:15	1
Barium	**110**	**J**	200	2.4	ug/L		12/12/16 14:00	12/13/16 23:15	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/12/16 14:00	12/13/16 23:15	1
Calcium	**180000**		5000	710	ug/L		12/12/16 14:00	12/13/16 23:15	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/13/16 23:15	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/12/16 14:00	12/13/16 23:15	1
Chromium	**11**		5.0	0.55	ug/L		12/12/16 14:00	12/13/16 23:15	1
Copper	25	U	25	3.9	ug/L		12/12/16 14:00	12/13/16 23:15	1
Iron	**3100**		100	25	ug/L		12/12/16 14:00	12/13/16 23:15	1
Potassium	**2200**	**J B**	5000	70	ug/L		12/12/16 14:00	12/13/16 23:15	1
Magnesium	**36000**		5000	230	ug/L		12/12/16 14:00	12/13/16 23:15	1
Manganese	**570**		15	5.1	ug/L		12/12/16 14:00	12/13/16 23:15	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/13/16 23:15	1
Sodium	**240000**	**B**	5000	330	ug/L		12/12/16 14:00	12/13/16 23:15	1
Nickel	**20**	**J**	40	1.6	ug/L		12/12/16 14:00	12/13/16 23:15	1

Client Sample ID: 20161207UAW02-20V15N
Date Collected: 12/07/16 12:40
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-1
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/13/16 23:15	1
Zinc	50	U	50	16	ug/L		12/12/16 14:00	12/13/16 23:15	1
Arsenic	10	U	10	3.3	ug/L		12/12/16 14:00	12/13/16 23:15	1
Lead	**2.7**	**J**	5.0	1.9	ug/L		12/12/16 14:00	12/13/16 23:15	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/13/16 23:15	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/13/16 23:15	1
Tin	**85**	**J**	100	1.8	ug/L		12/12/16 14:00	12/13/16 23:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 12:42	1

Client Sample ID: 20161207UAW04-20V16N
Date Collected: 12/07/16 15:13
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/17/16 11:54	1
Benzene	1.0	U	1.0	0.28	ug/L			12/17/16 11:54	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/17/16 11:54	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/17/16 11:54	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/17/16 11:54	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/17/16 11:54	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/17/16 11:54	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/17/16 11:54	1
Chlorobenzene	**1.7**		1.0	0.32	ug/L			12/17/16 11:54	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/17/16 11:54	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/17/16 11:54	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/17/16 11:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 11:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/17/16 11:54	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/17/16 11:54	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/17/16 11:54	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/17/16 11:54	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/17/16 11:54	1
1,2-Dichlorobenzene	**1.1**		1.0	0.26	ug/L			12/17/16 11:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 11:54	1
1,4-Dichlorobenzene	**0.30**	**J**	1.0	0.23	ug/L			12/17/16 11:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/17/16 11:54	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/17/16 11:54	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/17/16 11:54	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/17/16 11:54	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/17/16 11:54	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/17/16 11:54	1
2-Hexanone	10	U	10	1.2	ug/L			12/17/16 11:54	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/17/16 11:54	1
Methyl acetate	10	U	10	1.4	ug/L			12/17/16 11:54	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/17/16 11:54	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/17/16 11:54	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/17/16 11:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/17/16 11:54	1
Styrene	1.0	U	1.0	0.23	ug/L			12/17/16 11:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/17/16 11:54	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 11:54	1
Toluene	1.0	U	1.0	0.23	ug/L			12/17/16 11:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/17/16 11:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/17/16 11:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/17/16 11:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/17/16 11:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/17/16 11:54	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/17/16 11:54	1
Trichlorofluoromethane	1.0	U *	1.0	0.50	ug/L			12/17/16 11:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/17/16 11:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/17/16 11:54	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/17/16 11:54	1

Client Sample ID: 20161207UAW04-20V16N
Date Collected: 12/07/16 15:13
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*12/17/16 11:54*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 120*		*12/17/16 11:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 132*		*12/17/16 11:54*	*1*
Toluene-d8 (Surr)	*99*		*73 - 124*		*12/17/16 11:54*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.042	ug/L		12/13/16 08:16	12/14/16 14:02	1
Acenaphthylene	0.19	U	0.19	0.019	ug/L		12/13/16 08:16	12/14/16 14:02	1
Acetophenone	0.96	U	0.96	0.13	ug/L		12/13/16 08:16	12/14/16 14:02	1
Aniline	4.8	U	4.8	0.21	ug/L		12/13/16 08:16	12/14/16 14:02	1
Anthracene	0.19	U	0.19	0.030	ug/L		12/13/16 08:16	12/14/16 14:02	1
Atrazine	1.9	U	1.9	0.11	ug/L		12/13/16 08:16	12/14/16 14:02	1
Benzaldehyde	1.9	U	1.9	0.28	ug/L		12/13/16 08:16	12/14/16 14:02	1
Benzo[a]anthracene	0.19	U	0.19	0.057	ug/L		12/13/16 08:16	12/14/16 14:02	1
Benzo[b]fluoranthene	0.19	U	0.19	0.057	ug/L		12/13/16 08:16	12/14/16 14:02	1
Benzo[k]fluoranthene	0.19	U	0.19	0.046	ug/L		12/13/16 08:16	12/14/16 14:02	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.048	ug/L		12/13/16 08:16	12/14/16 14:02	1
Benzo[a]pyrene	0.19	U	0.19	0.029	ug/L		12/13/16 08:16	12/14/16 14:02	1
Butyl benzyl phthalate	0.96	U	0.96	0.21	ug/L		12/13/16 08:16	12/14/16 14:02	1
1,1'-Biphenyl	0.96	U	0.96	0.12	ug/L		12/13/16 08:16	12/14/16 14:02	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.036	ug/L		12/13/16 08:16	12/14/16 14:02	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.18	ug/L		12/13/16 08:16	12/14/16 14:02	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	1.5	ug/L		12/13/16 08:16	12/14/16 14:02	1
4-Bromophenyl phenyl ether	1.9	U	1.9	0.33	ug/L		12/13/16 08:16	12/14/16 14:02	1
Caprolactam	**1.7**	**J B**	4.8	0.36	ug/L		12/13/16 08:16	12/14/16 14:02	1
Carbazole	0.96	U	0.96	0.10	ug/L		12/13/16 08:16	12/14/16 14:02	1
4-Chloroaniline	1.9	U	1.9	0.14	ug/L		12/13/16 08:16	12/14/16 14:02	1
4-Chloro-3-methylphenol	1.9	U	1.9	0.27	ug/L		12/13/16 08:16	12/14/16 14:02	1
2-Chloronaphthalene	0.96	U	0.96	0.11	ug/L		12/13/16 08:16	12/14/16 14:02	1
2-Chlorophenol	0.96	U	0.96	0.13	ug/L		12/13/16 08:16	12/14/16 14:02	1
4-Chlorophenyl phenyl ether	1.9	U	1.9	0.28	ug/L		12/13/16 08:16	12/14/16 14:02	1
Chrysene	0.19	U	0.19	0.034	ug/L		12/13/16 08:16	12/14/16 14:02	1
2-Methylnaphthalene	0.19	U	0.19	0.036	ug/L		12/13/16 08:16	12/14/16 14:02	1
3 & 4 Methylphenol	1.9	U	1.9	0.32	ug/L		12/13/16 08:16	12/14/16 14:02	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.038	ug/L		12/13/16 08:16	12/14/16 14:02	1
Dibenzofuran	0.96	U	0.96	0.13	ug/L		12/13/16 08:16	12/14/16 14:02	1
3,3'-Dichlorobenzidine	4.8	U	4.8	0.34	ug/L		12/13/16 08:16	12/14/16 14:02	1
2,4-Dichlorophenol	1.9	U	1.9	0.28	ug/L		12/13/16 08:16	12/14/16 14:02	1
Diethyl phthalate	0.96	U	0.96	0.12	ug/L		12/13/16 08:16	12/14/16 14:02	1
2,4-Dimethylphenol	1.9	U	1.9	0.30	ug/L		12/13/16 08:16	12/14/16 14:02	1
Dimethyl phthalate	0.96	U	0.96	0.097	ug/L		12/13/16 08:16	12/14/16 14:02	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.50	ug/L		12/13/16 08:16	12/14/16 14:02	1
2,4-Dinitrophenol	38	U	38	5.9	ug/L		12/13/16 08:16	12/14/16 14:02	1
2,4-Dinitrotoluene	4.8	U	4.8	0.25	ug/L		12/13/16 08:16	12/14/16 14:02	1
Di-n-butyl phthalate	**0.47**	**J B**	0.96	0.38	ug/L		12/13/16 08:16	12/14/16 14:02	1
Di-n-octyl phthalate	0.96	U	0.96	0.35	ug/L		12/13/16 08:16	12/14/16 14:02	1
Fluoranthene	0.19	U	0.19	0.026	ug/L		12/13/16 08:16	12/14/16 14:02	1
Fluorene	0.19	U	0.19	0.033	ug/L		12/13/16 08:16	12/14/16 14:02	1
Hexachlorobenzene	0.96	U	0.96	0.11	ug/L		12/13/16 08:16	12/14/16 14:02	1

Client Sample ID: 20161207UAW04-20V16N
Date Collected: 12/07/16 15:13
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.96	U	0.96	0.14	ug/L		12/13/16 08:16	12/14/16 14:02	1
Hexachlorocyclopentadiene	9.6	U	9.6	2.4	ug/L		12/13/16 08:16	12/14/16 14:02	1
Hexachloroethane	0.96	U	0.96	0.21	ug/L		12/13/16 08:16	12/14/16 14:02	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.046	ug/L		12/13/16 08:16	12/14/16 14:02	1
Isophorone	0.96	U	0.96	0.040	ug/L		12/13/16 08:16	12/14/16 14:02	1
2-Methylphenol	0.96	U	0.96	0.18	ug/L		12/13/16 08:16	12/14/16 14:02	1
Naphthalene	0.19	U	0.19	0.041	ug/L		12/13/16 08:16	12/14/16 14:02	1
2-Nitroaniline	1.9	U	1.9	0.30	ug/L		12/13/16 08:16	12/14/16 14:02	1
3-Nitroaniline	1.9	U	1.9	0.25	ug/L		12/13/16 08:16	12/14/16 14:02	1
4-Nitroaniline	1.9	U	1.9	0.23	ug/L		12/13/16 08:16	12/14/16 14:02	1
Nitrobenzene	0.96	U	0.96	0.11	ug/L		12/13/16 08:16	12/14/16 14:02	1
2-Nitrophenol	1.9	U	1.9	0.20	ug/L		12/13/16 08:16	12/14/16 14:02	1
4-Nitrophenol	4.8	U	4.8	0.56	ug/L		12/13/16 08:16	12/14/16 14:02	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.11	ug/L		12/13/16 08:16	12/14/16 14:02	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.15	ug/L		12/13/16 08:16	12/14/16 14:02	1
2,2'-oxybis(1-chloropropane)	0.96	U	0.96	0.18	ug/L		12/13/16 08:16	12/14/16 14:02	1
Pentachlorophenol	38	U	38	5.3	ug/L		12/13/16 08:16	12/14/16 14:02	1
Phenanthrene	0.19	U	0.19	0.030	ug/L		12/13/16 08:16	12/14/16 14:02	1
Phenol	0.96	U	0.96	0.14	ug/L		12/13/16 08:16	12/14/16 14:02	1
Pyrene	0.19	U	0.19	0.027	ug/L		12/13/16 08:16	12/14/16 14:02	1
2,4,5-Trichlorophenol	4.8	U	4.8	0.35	ug/L		12/13/16 08:16	12/14/16 14:02	1
2,4,6-Trichlorophenol	4.8	U	4.8	0.25	ug/L		12/13/16 08:16	12/14/16 14:02	1
2,6-Dinitrotoluene	4.8	U	4.8	0.23	ug/L		12/13/16 08:16	12/14/16 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*44 - 120*	*12/13/16 08:16*	*12/14/16 14:02*	*1*
2-Fluorophenol (Surr)	*79*		*26 - 120*	*12/13/16 08:16*	*12/14/16 14:02*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*36 - 120*	*12/13/16 08:16*	*12/14/16 14:02*	*1*
Nitrobenzene-d5 (Surr)	*73*		*44 - 120*	*12/13/16 08:16*	*12/14/16 14:02*	*1*
Phenol-d5 (Surr)	*51*		*16 - 120*	*12/13/16 08:16*	*12/14/16 14:02*	*1*
Terphenyl-d14 (Surr)	*84*		*43 - 120*	*12/13/16 08:16*	*12/14/16 14:02*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**120**	**J**	200	40	ug/L		12/12/16 14:00	12/13/16 23:27	1
Antimony	**16**		10	3.1	ug/L		12/12/16 14:00	12/13/16 23:27	1
Barium	**42**	**J**	200	2.4	ug/L		12/12/16 14:00	12/13/16 23:27	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/12/16 14:00	12/13/16 23:27	1
Calcium	**69000**		5000	710	ug/L		12/12/16 14:00	12/13/16 23:27	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/13/16 23:27	1
Cobalt	**2.3**	**J**	7.0	0.84	ug/L		12/12/16 14:00	12/13/16 23:27	1
Chromium	**170**		5.0	0.55	ug/L		12/12/16 14:00	12/13/16 23:27	1
Copper	25	U	25	3.9	ug/L		12/12/16 14:00	12/13/16 23:27	1
Iron	**2300**		100	25	ug/L		12/12/16 14:00	12/13/16 23:27	1
Potassium	**2200**	**J B**	5000	70	ug/L		12/12/16 14:00	12/13/16 23:27	1
Magnesium	**13000**		5000	230	ug/L		12/12/16 14:00	12/13/16 23:27	1
Manganese	**160**		15	5.1	ug/L		12/12/16 14:00	12/13/16 23:27	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/13/16 23:27	1
Sodium	**64000**	**B**	5000	330	ug/L		12/12/16 14:00	12/13/16 23:27	1
Nickel	**270**		40	1.6	ug/L		12/12/16 14:00	12/13/16 23:27	1

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161207UAW04-20V16N
Date Collected: 12/07/16 15:13
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-2
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/13/16 23:27	1
Zinc	50	U	50	16	ug/L		12/12/16 14:00	12/13/16 23:27	1
Arsenic	**7.8**	**J**	10	3.3	ug/L		12/12/16 14:00	12/13/16 23:27	1
Lead	5.0	U	5.0	1.9	ug/L		12/12/16 14:00	12/13/16 23:27	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/13/16 23:27	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/13/16 23:27	1
Tin	**60**	**J**	100	1.8	ug/L		12/12/16 14:00	12/13/16 23:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 12:48	1

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161208MW-EPA-4V19N
Date Collected: 12/08/16 09:48
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/17/16 12:16	1
Benzene	1.0	U	1.0	0.28	ug/L			12/17/16 12:16	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/17/16 12:16	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/17/16 12:16	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/17/16 12:16	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/17/16 12:16	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/17/16 12:16	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/17/16 12:16	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 12:16	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/17/16 12:16	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/17/16 12:16	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/17/16 12:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 12:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/17/16 12:16	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/17/16 12:16	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/17/16 12:16	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/17/16 12:16	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/17/16 12:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/17/16 12:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 12:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/17/16 12:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/17/16 12:16	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/17/16 12:16	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/17/16 12:16	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/17/16 12:16	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/17/16 12:16	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/17/16 12:16	1
2-Hexanone	10	U	10	1.2	ug/L			12/17/16 12:16	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/17/16 12:16	1
Methyl acetate	10	U	10	1.4	ug/L			12/17/16 12:16	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/17/16 12:16	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/17/16 12:16	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/17/16 12:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/17/16 12:16	1
Styrene	1.0	U	1.0	0.23	ug/L			12/17/16 12:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/17/16 12:16	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 12:16	1
Toluene	1.0	U	1.0	0.23	ug/L			12/17/16 12:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/17/16 12:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/17/16 12:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/17/16 12:16	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/17/16 12:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/17/16 12:16	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/17/16 12:16	1
Trichlorofluoromethane	1.0	U *	1.0	0.50	ug/L			12/17/16 12:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/17/16 12:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/17/16 12:16	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/17/16 12:16	1

Client Sample ID: 20161208MW-EPA-4V19N
Date Collected: 12/08/16 09:48
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*12/17/16 12:16*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*12/17/16 12:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 132*		*12/17/16 12:16*	*1*
Toluene-d8 (Surr)	*100*		*73 - 124*		*12/17/16 12:16*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.041	ug/L		12/15/16 10:52	12/21/16 10:14	1
Acenaphthylene	0.19	U	0.19	0.019	ug/L		12/15/16 10:52	12/21/16 10:14	1
Acetophenone	0.93	U	0.93	0.13	ug/L		12/15/16 10:52	12/21/16 10:14	1
Aniline	4.6	U	4.6	0.20	ug/L		12/15/16 10:52	12/21/16 10:14	1
Anthracene	0.19	U	0.19	0.029	ug/L		12/15/16 10:52	12/21/16 10:14	1
Atrazine	1.9	U	1.9	0.11	ug/L		12/15/16 10:52	12/21/16 10:14	1
Benzaldehyde	1.9	U	1.9	0.27	ug/L		12/15/16 10:52	12/21/16 10:14	1
Benzo[a]anthracene	0.19	U	0.19	0.055	ug/L		12/15/16 10:52	12/21/16 10:14	1
Benzo[b]fluoranthene	0.19	U	0.19	0.055	ug/L		12/15/16 10:52	12/21/16 10:14	1
Benzo[k]fluoranthene	0.19	U	0.19	0.044	ug/L		12/15/16 10:52	12/21/16 10:14	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.046	ug/L		12/15/16 10:52	12/21/16 10:14	1
Benzo[a]pyrene	0.19	U	0.19	0.028	ug/L		12/15/16 10:52	12/21/16 10:14	1
Butyl benzyl phthalate	0.93	U	0.93	0.20	ug/L		12/15/16 10:52	12/21/16 10:14	1
1,1'-Biphenyl	0.93	U	0.93	0.11	ug/L		12/15/16 10:52	12/21/16 10:14	1
Bis(2-chloroethoxy)methane	0.93	U	0.93	0.034	ug/L		12/15/16 10:52	12/21/16 10:14	1
Bis(2-chloroethyl)ether	0.93	U	0.93	0.18	ug/L		12/15/16 10:52	12/21/16 10:14	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	1.4	ug/L		12/15/16 10:52	12/21/16 10:14	1
4-Bromophenyl phenyl ether	1.9	U	1.9	0.32	ug/L		12/15/16 10:52	12/21/16 10:14	1
Caprolactam	4.6	U *	4.6	0.34	ug/L		12/15/16 10:52	12/21/16 10:14	1
Carbazole	0.93	U	0.93	0.097	ug/L		12/15/16 10:52	12/21/16 10:14	1
4-Chloroaniline	1.9	U	1.9	0.14	ug/L		12/15/16 10:52	12/21/16 10:14	1
4-Chloro-3-methylphenol	1.9	U	1.9	0.26	ug/L		12/15/16 10:52	12/21/16 10:14	1
2-Chloronaphthalene	0.93	U	0.93	0.11	ug/L		12/15/16 10:52	12/21/16 10:14	1
2-Chlorophenol	0.93	U	0.93	0.12	ug/L		12/15/16 10:52	12/21/16 10:14	1
4-Chlorophenyl phenyl ether	1.9	U	1.9	0.27	ug/L		12/15/16 10:52	12/21/16 10:14	1
Chrysene	0.19	U	0.19	0.032	ug/L		12/15/16 10:52	12/21/16 10:14	1
2-Methylnaphthalene	0.19	U	0.19	0.034	ug/L		12/15/16 10:52	12/21/16 10:14	1
3 & 4 Methylphenol	1.9	U	1.9	0.31	ug/L		12/15/16 10:52	12/21/16 10:14	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.037	ug/L		12/15/16 10:52	12/21/16 10:14	1
Dibenzofuran	0.93	U	0.93	0.13	ug/L		12/15/16 10:52	12/21/16 10:14	1
3,3'-Dichlorobenzidine	4.6	U	4.6	0.33	ug/L		12/15/16 10:52	12/21/16 10:14	1
2,4-Dichlorophenol	1.9	U	1.9	0.27	ug/L		12/15/16 10:52	12/21/16 10:14	1
Diethyl phthalate	0.93	U	0.93	0.12	ug/L		12/15/16 10:52	12/21/16 10:14	1
2,4-Dimethylphenol	1.9	U	1.9	0.29	ug/L		12/15/16 10:52	12/21/16 10:14	1
Dimethyl phthalate	0.93	U	0.93	0.094	ug/L		12/15/16 10:52	12/21/16 10:14	1
4,6-Dinitro-2-methylphenol	4.6	U	4.6	0.49	ug/L		12/15/16 10:52	12/21/16 10:14	1
2,4-Dinitrophenol	37	U	37	5.7	ug/L		12/15/16 10:52	12/21/16 10:14	1
2,4-Dinitrotoluene	4.6	U	4.6	0.24	ug/L		12/15/16 10:52	12/21/16 10:14	1
Di-n-butyl phthalate	0.93	U	0.93	0.37	ug/L		12/15/16 10:52	12/21/16 10:14	1
Di-n-octyl phthalate	0.93	U	0.93	0.34	ug/L		12/15/16 10:52	12/21/16 10:14	1
Fluoranthene	0.19	U	0.19	0.025	ug/L		12/15/16 10:52	12/21/16 10:14	1
Fluorene	0.19	U	0.19	0.031	ug/L		12/15/16 10:52	12/21/16 10:14	1
Hexachlorobenzene	0.93	U	0.93	0.11	ug/L		12/15/16 10:52	12/21/16 10:14	1

Client Sample ID: 20161208MW-EPA-4V19N
Date Collected: 12/08/16 09:48
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.93	U	0.93	0.13	ug/L		12/15/16 10:52	12/21/16 10:14	1
Hexachlorocyclopentadiene	9.3	U	9.3	2.3	ug/L		12/15/16 10:52	12/21/16 10:14	1
Hexachloroethane	0.93	U	0.93	0.20	ug/L		12/15/16 10:52	12/21/16 10:14	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.044	ug/L		12/15/16 10:52	12/21/16 10:14	1
Isophorone	0.93	U	0.93	0.039	ug/L		12/15/16 10:52	12/21/16 10:14	1
2-Methylphenol	0.93	U	0.93	0.17	ug/L		12/15/16 10:52	12/21/16 10:14	1
Naphthalene	0.19	U	0.19	0.040	ug/L		12/15/16 10:52	12/21/16 10:14	1
2-Nitroaniline	1.9	U	1.9	0.29	ug/L		12/15/16 10:52	12/21/16 10:14	1
3-Nitroaniline	1.9	U *	1.9	0.25	ug/L		12/15/16 10:52	12/21/16 10:14	1
4-Nitroaniline	1.9	U	1.9	0.22	ug/L		12/15/16 10:52	12/21/16 10:14	1
Nitrobenzene	0.93	U	0.93	0.11	ug/L		12/15/16 10:52	12/21/16 10:14	1
2-Nitrophenol	1.9	U	1.9	0.19	ug/L		12/15/16 10:52	12/21/16 10:14	1
4-Nitrophenol	4.6	U	4.6	0.54	ug/L		12/15/16 10:52	12/21/16 10:14	1
N-Nitrosodiphenylamine	0.93	U	0.93	0.10	ug/L		12/15/16 10:52	12/21/16 10:14	1
N-Nitrosodi-n-propylamine	0.93	U	0.93	0.15	ug/L		12/15/16 10:52	12/21/16 10:14	1
2,2'-oxybis(1-chloropropane)	0.93	U	0.93	0.17	ug/L		12/15/16 10:52	12/21/16 10:14	1
Pentachlorophenol	37	U	37	5.1	ug/L		12/15/16 10:52	12/21/16 10:14	1
Phenanthrene	0.19	U	0.19	0.029	ug/L		12/15/16 10:52	12/21/16 10:14	1
Phenol	0.93	U	0.93	0.14	ug/L		12/15/16 10:52	12/21/16 10:14	1
Pyrene	0.19	U	0.19	0.026	ug/L		12/15/16 10:52	12/21/16 10:14	1
2,4,5-Trichlorophenol	4.6	U	4.6	0.34	ug/L		12/15/16 10:52	12/21/16 10:14	1
2,4,6-Trichlorophenol	4.6	U	4.6	0.24	ug/L		12/15/16 10:52	12/21/16 10:14	1
2,6-Dinitrotoluene	4.6	U	4.6	0.22	ug/L		12/15/16 10:52	12/21/16 10:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*44 - 120*	*12/15/16 10:52*	*12/21/16 10:14*	*1*
2-Fluorophenol (Surr)	*70*		*26 - 120*	*12/15/16 10:52*	*12/21/16 10:14*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*36 - 120*	*12/15/16 10:52*	*12/21/16 10:14*	*1*
Nitrobenzene-d5 (Surr)	*72*		*44 - 120*	*12/15/16 10:52*	*12/21/16 10:14*	*1*
Phenol-d5 (Surr)	*58*		*16 - 120*	*12/15/16 10:52*	*12/21/16 10:14*	*1*
Terphenyl-d14 (Surr)	*79*		*43 - 120*	*12/15/16 10:52*	*12/21/16 10:14*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/12/16 14:00	12/13/16 23:32	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/13/16 23:32	1
Barium	**91**	**J**	200	2.4	ug/L		12/12/16 14:00	12/13/16 23:32	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/12/16 14:00	12/13/16 23:32	1
Calcium	**100000**		5000	710	ug/L		12/12/16 14:00	12/13/16 23:32	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/13/16 23:32	1
Cobalt	**13**		7.0	0.84	ug/L		12/12/16 14:00	12/13/16 23:32	1
Chromium	**7700**		5.0	0.55	ug/L		12/12/16 14:00	12/13/16 23:32	1
Copper	**130**		25	3.9	ug/L		12/12/16 14:00	12/13/16 23:32	1
Iron	**16000**		100	25	ug/L		12/12/16 14:00	12/13/16 23:32	1
Potassium	**2600**	**J B**	5000	70	ug/L		12/12/16 14:00	12/13/16 23:32	1
Magnesium	**25000**		5000	230	ug/L		12/12/16 14:00	12/13/16 23:32	1
Manganese	**250**		15	5.1	ug/L		12/12/16 14:00	12/13/16 23:32	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/13/16 23:32	1
Sodium	**240000**	**B**	5000	330	ug/L		12/12/16 14:00	12/13/16 23:32	1
Nickel	**660**		40	1.6	ug/L		12/12/16 14:00	12/13/16 23:32	1

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161208MW-EPA-4V19N
Date Collected: 12/08/16 09:48
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-3
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	**41**		10	4.4	ug/L		12/12/16 14:00	12/13/16 23:32	1
Zinc	50	U	50	16	ug/L		12/12/16 14:00	12/13/16 23:32	1
Arsenic	**7.3**	**J**	10	3.3	ug/L		12/12/16 14:00	12/13/16 23:32	1
Lead	5.0	U	5.0	1.9	ug/L		12/12/16 14:00	12/13/16 23:32	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/13/16 23:32	1
Thallium	**3.3**	**J**	10	2.1	ug/L		12/12/16 14:00	12/13/16 23:32	1
Tin	**30**	**J**	100	1.8	ug/L		12/12/16 14:00	12/13/16 23:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 12:50	1

Client Sample ID: 20161208UAW15-50V42N
Date Collected: 12/08/16 11:55
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**9.0**	**J**	10	1.8	ug/L			12/17/16 12:39	1
Benzene	1.0	U	1.0	0.28	ug/L			12/17/16 12:39	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/17/16 12:39	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/17/16 12:39	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/17/16 12:39	1
2-Butanone (MEK)	**1.6**	**J**	10	1.0	ug/L			12/17/16 12:39	1
Carbon disulfide	**0.44**	**J**	1.0	0.34	ug/L			12/17/16 12:39	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/17/16 12:39	1
Chlorobenzene	**2.2**		1.0	0.32	ug/L			12/17/16 12:39	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/17/16 12:39	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/17/16 12:39	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/17/16 12:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 12:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/17/16 12:39	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/17/16 12:39	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/17/16 12:39	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/17/16 12:39	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/17/16 12:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/17/16 12:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 12:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/17/16 12:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/17/16 12:39	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/17/16 12:39	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/17/16 12:39	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/17/16 12:39	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/17/16 12:39	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/17/16 12:39	1
2-Hexanone	10	U	10	1.2	ug/L			12/17/16 12:39	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/17/16 12:39	1
Methyl acetate	10	U	10	1.4	ug/L			12/17/16 12:39	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/17/16 12:39	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/17/16 12:39	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/17/16 12:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/17/16 12:39	1
Styrene	1.0	U	1.0	0.23	ug/L			12/17/16 12:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/17/16 12:39	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 12:39	1
Toluene	1.0	U	1.0	0.23	ug/L			12/17/16 12:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/17/16 12:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/17/16 12:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/17/16 12:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/17/16 12:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/17/16 12:39	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/17/16 12:39	1
Trichlorofluoromethane	1.0	U *	1.0	0.50	ug/L			12/17/16 12:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/17/16 12:39	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/17/16 12:39	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/17/16 12:39	1

Client Sample ID: 20161208UAW15-50V42N
Date Collected: 12/08/16 11:55
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*12/17/16 12:39*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 120*		*12/17/16 12:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 132*		*12/17/16 12:39*	*1*
Toluene-d8 (Surr)	*99*		*73 - 124*		*12/17/16 12:39*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/15/16 10:52	12/21/16 10:38	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/15/16 10:52	12/21/16 10:38	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/21/16 10:38	1
Aniline	5.0	U	5.0	0.22	ug/L		12/15/16 10:52	12/21/16 10:38	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/15/16 10:52	12/21/16 10:38	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/15/16 10:52	12/21/16 10:38	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/15/16 10:52	12/21/16 10:38	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/15/16 10:52	12/21/16 10:38	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/15/16 10:52	12/21/16 10:38	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/15/16 10:52	12/21/16 10:38	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/15/16 10:52	12/21/16 10:38	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/15/16 10:52	12/21/16 10:38	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/15/16 10:52	12/21/16 10:38	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 10:38	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/15/16 10:52	12/21/16 10:38	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/15/16 10:52	12/21/16 10:38	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/15/16 10:52	12/21/16 10:38	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/15/16 10:52	12/21/16 10:38	1
Caprolactam	**4.2**	**J ***	5.0	0.37	ug/L		12/15/16 10:52	12/21/16 10:38	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/21/16 10:38	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/15/16 10:52	12/21/16 10:38	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/15/16 10:52	12/21/16 10:38	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 10:38	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/21/16 10:38	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/15/16 10:52	12/21/16 10:38	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/15/16 10:52	12/21/16 10:38	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/15/16 10:52	12/21/16 10:38	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/15/16 10:52	12/21/16 10:38	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/15/16 10:52	12/21/16 10:38	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/21/16 10:38	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/15/16 10:52	12/21/16 10:38	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/15/16 10:52	12/21/16 10:38	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/21/16 10:38	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/15/16 10:52	12/21/16 10:38	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/15/16 10:52	12/21/16 10:38	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/15/16 10:52	12/21/16 10:38	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/15/16 10:52	12/21/16 10:38	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/15/16 10:52	12/21/16 10:38	1
Di-n-butyl phthalate	**0.51**	**J B**	1.0	0.40	ug/L		12/15/16 10:52	12/21/16 10:38	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/15/16 10:52	12/21/16 10:38	1
Fluoranthene	**0.26**		0.20	0.027	ug/L		12/15/16 10:52	12/21/16 10:38	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/15/16 10:52	12/21/16 10:38	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 10:38	1

Client Sample ID: 20161208UAW15-50V42N
Date Collected: 12/08/16 11:55
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/21/16 10:38	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/15/16 10:52	12/21/16 10:38	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/15/16 10:52	12/21/16 10:38	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/15/16 10:52	12/21/16 10:38	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/15/16 10:52	12/21/16 10:38	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/15/16 10:52	12/21/16 10:38	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/15/16 10:52	12/21/16 10:38	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/15/16 10:52	12/21/16 10:38	1
3-Nitroaniline	2.0	U *	2.0	0.27	ug/L		12/15/16 10:52	12/21/16 10:38	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/15/16 10:52	12/21/16 10:38	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 10:38	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/15/16 10:52	12/21/16 10:38	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/15/16 10:52	12/21/16 10:38	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/21/16 10:38	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/15/16 10:52	12/21/16 10:38	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/15/16 10:52	12/21/16 10:38	1
Pentachlorophenol	**8.6**	**J**	40	5.5	ug/L		12/15/16 10:52	12/21/16 10:38	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/15/16 10:52	12/21/16 10:38	1
Phenol	1.0	U	1.0	0.15	ug/L		12/15/16 10:52	12/21/16 10:38	1
Pyrene	**0.23**		0.20	0.028	ug/L		12/15/16 10:52	12/21/16 10:38	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/15/16 10:52	12/21/16 10:38	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/15/16 10:52	12/21/16 10:38	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/15/16 10:52	12/21/16 10:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*44 - 120*	*12/15/16 10:52*	*12/21/16 10:38*	*1*
2-Fluorophenol (Surr)	*76*		*26 - 120*	*12/15/16 10:52*	*12/21/16 10:38*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*36 - 120*	*12/15/16 10:52*	*12/21/16 10:38*	*1*
Nitrobenzene-d5 (Surr)	*74*		*44 - 120*	*12/15/16 10:52*	*12/21/16 10:38*	*1*
Phenol-d5 (Surr)	*62*		*16 - 120*	*12/15/16 10:52*	*12/21/16 10:38*	*1*
Terphenyl-d14 (Surr)	*85*		*43 - 120*	*12/15/16 10:52*	*12/21/16 10:38*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**770**		200	40	ug/L		12/12/16 14:00	12/13/16 23:36	1
Antimony	**4.2**	**J**	10	3.1	ug/L		12/12/16 14:00	12/13/16 23:36	1
Barium	**40**	**J**	200	2.4	ug/L		12/12/16 14:00	12/13/16 23:36	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/12/16 14:00	12/13/16 23:36	1
Calcium	**54000**		5000	710	ug/L		12/12/16 14:00	12/13/16 23:36	1
Cadmium	**0.93**	**J**	2.0	0.29	ug/L		12/12/16 14:00	12/13/16 23:36	1
Cobalt	**0.87**	**J**	7.0	0.84	ug/L		12/12/16 14:00	12/13/16 23:36	1
Chromium	**12**		5.0	0.55	ug/L		12/12/16 14:00	12/13/16 23:36	1
Copper	**45**		25	3.9	ug/L		12/12/16 14:00	12/13/16 23:36	1
Iron	**2400**		100	25	ug/L		12/12/16 14:00	12/13/16 23:36	1
Potassium	**1800**	**J B**	5000	70	ug/L		12/12/16 14:00	12/13/16 23:36	1
Magnesium	**4900**	**J**	5000	230	ug/L		12/12/16 14:00	12/13/16 23:36	1
Manganese	**120**		15	5.1	ug/L		12/12/16 14:00	12/13/16 23:36	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/13/16 23:36	1
Sodium	**13000**	**B**	5000	330	ug/L		12/12/16 14:00	12/13/16 23:36	1
Nickel	**6.3**	**J**	40	1.6	ug/L		12/12/16 14:00	12/13/16 23:36	1

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161208UAW15-50V42N
Date Collected: 12/08/16 11:55
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-4
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/13/16 23:36	1
Zinc	**190**		50	16	ug/L		12/12/16 14:00	12/13/16 23:36	1
Arsenic	**12**		10	3.3	ug/L		12/12/16 14:00	12/13/16 23:36	1
Lead	**9.1**		5.0	1.9	ug/L		12/12/16 14:00	12/13/16 23:36	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/13/16 23:36	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/13/16 23:36	1
Tin	**290**		100	1.8	ug/L		12/12/16 14:00	12/13/16 23:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 12:52	1

Client Sample ID: 20161208UAW11-40V39N
Date Collected: 12/08/16 14:10
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/17/16 13:01	1
Benzene	1.0	U	1.0	0.28	ug/L			12/17/16 13:01	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/17/16 13:01	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/17/16 13:01	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/17/16 13:01	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/17/16 13:01	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/17/16 13:01	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/17/16 13:01	1
Chlorobenzene	**3.8**		1.0	0.32	ug/L			12/17/16 13:01	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/17/16 13:01	1
Chloroform	**0.39**	**J**	1.0	0.31	ug/L			12/17/16 13:01	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/17/16 13:01	1
cis-1,2-Dichloroethene	**2.0**		1.0	0.30	ug/L			12/17/16 13:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/17/16 13:01	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/17/16 13:01	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/17/16 13:01	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/17/16 13:01	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/17/16 13:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/17/16 13:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 13:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/17/16 13:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/17/16 13:01	1
1,1-Dichloroethane	**1.9**		1.0	0.25	ug/L			12/17/16 13:01	1
1,2-Dichloroethane	**2.4**		1.0	0.30	ug/L			12/17/16 13:01	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/17/16 13:01	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/17/16 13:01	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/17/16 13:01	1
2-Hexanone	10	U	10	1.2	ug/L			12/17/16 13:01	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/17/16 13:01	1
Methyl acetate	10	U	10	1.4	ug/L			12/17/16 13:01	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/17/16 13:01	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/17/16 13:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/17/16 13:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/17/16 13:01	1
Styrene	1.0	U	1.0	0.23	ug/L			12/17/16 13:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/17/16 13:01	1
Tetrachloroethene	**11**		1.0	0.30	ug/L			12/17/16 13:01	1
Toluene	1.0	U	1.0	0.23	ug/L			12/17/16 13:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/17/16 13:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/17/16 13:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/17/16 13:01	1
1,1,1-Trichloroethane	**2.2**		1.0	0.23	ug/L			12/17/16 13:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/17/16 13:01	1
Trichloroethene	**1.9**		1.0	0.33	ug/L			12/17/16 13:01	1
Trichlorofluoromethane	1.0	U *	1.0	0.50	ug/L			12/17/16 13:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/17/16 13:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/17/16 13:01	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/17/16 13:01	1

Client Sample ID: 20161208UAW11-40V39N
Date Collected: 12/08/16 14:10
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*12/17/16 13:01*	*1*
Dibromofluoromethane (Surr)	*116*		*80 - 120*		*12/17/16 13:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 132*		*12/17/16 13:01*	*1*
Toluene-d8 (Surr)	*98*		*73 - 124*		*12/17/16 13:01*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.042	ug/L		12/15/16 10:52	12/21/16 11:03	1
Acenaphthylene	0.19	U	0.19	0.019	ug/L		12/15/16 10:52	12/21/16 11:03	1
Acetophenone	0.96	U	0.96	0.13	ug/L		12/15/16 10:52	12/21/16 11:03	1
Aniline	4.8	U	4.8	0.21	ug/L		12/15/16 10:52	12/21/16 11:03	1
Anthracene	0.19	U	0.19	0.030	ug/L		12/15/16 10:52	12/21/16 11:03	1
Atrazine	1.9	U	1.9	0.11	ug/L		12/15/16 10:52	12/21/16 11:03	1
Benzaldehyde	1.9	U	1.9	0.28	ug/L		12/15/16 10:52	12/21/16 11:03	1
Benzo[a]anthracene	0.19	U	0.19	0.057	ug/L		12/15/16 10:52	12/21/16 11:03	1
Benzo[b]fluoranthene	0.19	U	0.19	0.057	ug/L		12/15/16 10:52	12/21/16 11:03	1
Benzo[k]fluoranthene	0.19	U	0.19	0.046	ug/L		12/15/16 10:52	12/21/16 11:03	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.048	ug/L		12/15/16 10:52	12/21/16 11:03	1
Benzo[a]pyrene	0.19	U	0.19	0.029	ug/L		12/15/16 10:52	12/21/16 11:03	1
Butyl benzyl phthalate	0.96	U	0.96	0.21	ug/L		12/15/16 10:52	12/21/16 11:03	1
1,1'-Biphenyl	0.96	U	0.96	0.12	ug/L		12/15/16 10:52	12/21/16 11:03	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.036	ug/L		12/15/16 10:52	12/21/16 11:03	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.18	ug/L		12/15/16 10:52	12/21/16 11:03	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	1.5	ug/L		12/15/16 10:52	12/21/16 11:03	1
4-Bromophenyl phenyl ether	1.9	U	1.9	0.33	ug/L		12/15/16 10:52	12/21/16 11:03	1
Caprolactam	4.8	U *	4.8	0.36	ug/L		12/15/16 10:52	12/21/16 11:03	1
Carbazole	0.96	U	0.96	0.10	ug/L		12/15/16 10:52	12/21/16 11:03	1
4-Chloroaniline	1.9	U	1.9	0.14	ug/L		12/15/16 10:52	12/21/16 11:03	1
4-Chloro-3-methylphenol	1.9	U	1.9	0.27	ug/L		12/15/16 10:52	12/21/16 11:03	1
2-Chloronaphthalene	0.96	U	0.96	0.11	ug/L		12/15/16 10:52	12/21/16 11:03	1
2-Chlorophenol	0.96	U	0.96	0.13	ug/L		12/15/16 10:52	12/21/16 11:03	1
4-Chlorophenyl phenyl ether	1.9	U	1.9	0.28	ug/L		12/15/16 10:52	12/21/16 11:03	1
Chrysene	0.19	U	0.19	0.034	ug/L		12/15/16 10:52	12/21/16 11:03	1
2-Methylnaphthalene	0.19	U	0.19	0.036	ug/L		12/15/16 10:52	12/21/16 11:03	1
3 & 4 Methylphenol	1.9	U	1.9	0.32	ug/L		12/15/16 10:52	12/21/16 11:03	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.038	ug/L		12/15/16 10:52	12/21/16 11:03	1
Dibenzofuran	0.96	U	0.96	0.13	ug/L		12/15/16 10:52	12/21/16 11:03	1
3,3'-Dichlorobenzidine	4.8	U	4.8	0.34	ug/L		12/15/16 10:52	12/21/16 11:03	1
2,4-Dichlorophenol	1.9	U	1.9	0.28	ug/L		12/15/16 10:52	12/21/16 11:03	1
Diethyl phthalate	0.96	U	0.96	0.12	ug/L		12/15/16 10:52	12/21/16 11:03	1
2,4-Dimethylphenol	1.9	U	1.9	0.30	ug/L		12/15/16 10:52	12/21/16 11:03	1
Dimethyl phthalate	0.96	U	0.96	0.097	ug/L		12/15/16 10:52	12/21/16 11:03	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.50	ug/L		12/15/16 10:52	12/21/16 11:03	1
2,4-Dinitrophenol	38	U	38	5.9	ug/L		12/15/16 10:52	12/21/16 11:03	1
2,4-Dinitrotoluene	4.8	U	4.8	0.25	ug/L		12/15/16 10:52	12/21/16 11:03	1
Di-n-butyl phthalate	0.96	U	0.96	0.38	ug/L		12/15/16 10:52	12/21/16 11:03	1
Di-n-octyl phthalate	0.96	U	0.96	0.35	ug/L		12/15/16 10:52	12/21/16 11:03	1
Fluoranthene	0.19	U	0.19	0.026	ug/L		12/15/16 10:52	12/21/16 11:03	1
Fluorene	0.19	U	0.19	0.033	ug/L		12/15/16 10:52	12/21/16 11:03	1
Hexachlorobenzene	0.96	U	0.96	0.11	ug/L		12/15/16 10:52	12/21/16 11:03	1

Client Sample ID: 20161208UAW11-40V39N
Date Collected: 12/08/16 14:10
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.96	U	0.96	0.14	ug/L		12/15/16 10:52	12/21/16 11:03	1
Hexachlorocyclopentadiene	9.6	U	9.6	2.4	ug/L		12/15/16 10:52	12/21/16 11:03	1
Hexachloroethane	0.96	U	0.96	0.21	ug/L		12/15/16 10:52	12/21/16 11:03	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.046	ug/L		12/15/16 10:52	12/21/16 11:03	1
Isophorone	0.96	U	0.96	0.040	ug/L		12/15/16 10:52	12/21/16 11:03	1
2-Methylphenol	0.96	U	0.96	0.18	ug/L		12/15/16 10:52	12/21/16 11:03	1
Naphthalene	0.19	U	0.19	0.041	ug/L		12/15/16 10:52	12/21/16 11:03	1
2-Nitroaniline	1.9	U	1.9	0.30	ug/L		12/15/16 10:52	12/21/16 11:03	1
3-Nitroaniline	1.9	U *	1.9	0.25	ug/L		12/15/16 10:52	12/21/16 11:03	1
4-Nitroaniline	1.9	U	1.9	0.23	ug/L		12/15/16 10:52	12/21/16 11:03	1
Nitrobenzene	0.96	U	0.96	0.11	ug/L		12/15/16 10:52	12/21/16 11:03	1
2-Nitrophenol	1.9	U	1.9	0.20	ug/L		12/15/16 10:52	12/21/16 11:03	1
4-Nitrophenol	4.8	U	4.8	0.56	ug/L		12/15/16 10:52	12/21/16 11:03	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.11	ug/L		12/15/16 10:52	12/21/16 11:03	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.15	ug/L		12/15/16 10:52	12/21/16 11:03	1
2,2'-oxybis(1-chloropropane)	0.96	U	0.96	0.18	ug/L		12/15/16 10:52	12/21/16 11:03	1
Pentachlorophenol	38	U	38	5.3	ug/L		12/15/16 10:52	12/21/16 11:03	1
Phenanthrene	0.19	U	0.19	0.030	ug/L		12/15/16 10:52	12/21/16 11:03	1
Phenol	0.96	U	0.96	0.14	ug/L		12/15/16 10:52	12/21/16 11:03	1
Pyrene	0.19	U	0.19	0.027	ug/L		12/15/16 10:52	12/21/16 11:03	1
2,4,5-Trichlorophenol	4.8	U	4.8	0.35	ug/L		12/15/16 10:52	12/21/16 11:03	1
2,4,6-Trichlorophenol	4.8	U	4.8	0.25	ug/L		12/15/16 10:52	12/21/16 11:03	1
2,6-Dinitrotoluene	4.8	U	4.8	0.23	ug/L		12/15/16 10:52	12/21/16 11:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*44 - 120*	*12/15/16 10:52*	*12/21/16 11:03*	*1*
2-Fluorophenol (Surr)	*86*		*26 - 120*	*12/15/16 10:52*	*12/21/16 11:03*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*36 - 120*	*12/15/16 10:52*	*12/21/16 11:03*	*1*
Nitrobenzene-d5 (Surr)	*72*		*44 - 120*	*12/15/16 10:52*	*12/21/16 11:03*	*1*
Phenol-d5 (Surr)	*64*		*16 - 120*	*12/15/16 10:52*	*12/21/16 11:03*	*1*
Terphenyl-d14 (Surr)	*83*		*43 - 120*	*12/15/16 10:52*	*12/21/16 11:03*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**340**		200	40	ug/L		12/12/16 14:00	12/13/16 23:40	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/13/16 23:40	1
Barium	**26**	**J**	200	2.4	ug/L		12/12/16 14:00	12/13/16 23:40	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/12/16 14:00	12/13/16 23:40	1
Calcium	**190000**		5000	710	ug/L		12/12/16 14:00	12/13/16 23:40	1
Cadmium	**0.36**	**J**	2.0	0.29	ug/L		12/12/16 14:00	12/13/16 23:40	1
Cobalt	**3.5**	**J**	7.0	0.84	ug/L		12/12/16 14:00	12/13/16 23:40	1
Chromium	**74**		5.0	0.55	ug/L		12/12/16 14:00	12/13/16 23:40	1
Copper	**6.2**	**J**	25	3.9	ug/L		12/12/16 14:00	12/13/16 23:40	1
Iron	**1100**		100	25	ug/L		12/12/16 14:00	12/13/16 23:40	1
Potassium	**4000**	**J B**	5000	70	ug/L		12/12/16 14:00	12/13/16 23:40	1
Magnesium	**45000**		5000	230	ug/L		12/12/16 14:00	12/13/16 23:40	1
Manganese	**1400**		15	5.1	ug/L		12/12/16 14:00	12/13/16 23:40	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/13/16 23:40	1
Sodium	**220000**	**B**	5000	330	ug/L		12/12/16 14:00	12/13/16 23:40	1
Nickel	**36**	**J**	40	1.6	ug/L		12/12/16 14:00	12/13/16 23:40	1

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161208UAW11-40V39N
Date Collected: 12/08/16 14:10
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-5
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/13/16 23:40	1
Zinc	**18**	**J**	50	16	ug/L		12/12/16 14:00	12/13/16 23:40	1
Arsenic	**3.4**	**J**	10	3.3	ug/L		12/12/16 14:00	12/13/16 23:40	1
Lead	**5.2**		5.0	1.9	ug/L		12/12/16 14:00	12/13/16 23:40	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/13/16 23:40	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/13/16 23:40	1
Tin	**60**	**J**	100	1.8	ug/L		12/12/16 14:00	12/13/16 23:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 12:54	1

Client Sample ID: 20161207UAW02-40V41N
Date Collected: 12/07/16 12:30
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/17/16 13:24	1
Benzene	1.0	U	1.0	0.28	ug/L			12/17/16 13:24	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/17/16 13:24	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/17/16 13:24	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/17/16 13:24	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/17/16 13:24	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/17/16 13:24	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/17/16 13:24	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 13:24	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/17/16 13:24	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/17/16 13:24	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/17/16 13:24	1
cis-1,2-Dichloroethene	**21**		1.0	0.30	ug/L			12/17/16 13:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/17/16 13:24	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/17/16 13:24	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/17/16 13:24	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/17/16 13:24	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/17/16 13:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/17/16 13:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 13:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/17/16 13:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/17/16 13:24	1
1,1-Dichloroethane	**4.7**		1.0	0.25	ug/L			12/17/16 13:24	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/17/16 13:24	1
1,1-Dichloroethene	**2.6**		1.0	0.27	ug/L			12/17/16 13:24	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/17/16 13:24	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/17/16 13:24	1
2-Hexanone	10	U	10	1.2	ug/L			12/17/16 13:24	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/17/16 13:24	1
Methyl acetate	10	U	10	1.4	ug/L			12/17/16 13:24	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/17/16 13:24	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/17/16 13:24	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/17/16 13:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/17/16 13:24	1
Styrene	1.0	U	1.0	0.23	ug/L			12/17/16 13:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/17/16 13:24	1
Tetrachloroethene	**0.36**	**J**	1.0	0.30	ug/L			12/17/16 13:24	1
Toluene	1.0	U	1.0	0.23	ug/L			12/17/16 13:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/17/16 13:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/17/16 13:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/17/16 13:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/17/16 13:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/17/16 13:24	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/17/16 13:24	1
Trichlorofluoromethane	1.0	U *	1.0	0.50	ug/L			12/17/16 13:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/17/16 13:24	1
Vinyl chloride	**6.0**		1.0	0.45	ug/L			12/17/16 13:24	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/17/16 13:24	1

Client Sample ID: 20161207UAW02-40V41N
Date Collected: 12/07/16 12:30
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*12/17/16 13:24*	*1*
Dibromofluoromethane (Surr)	*116*		*80 - 120*		*12/17/16 13:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 132*		*12/17/16 13:24*	*1*
Toluene-d8 (Surr)	*99*		*73 - 124*		*12/17/16 13:24*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21	U	0.21	0.046	ug/L		12/13/16 08:16	12/14/16 14:27	1
Acenaphthylene	0.21	U	0.21	0.021	ug/L		12/13/16 08:16	12/14/16 14:27	1
Acetophenone	1.0	U	1.0	0.15	ug/L		12/13/16 08:16	12/14/16 14:27	1
Aniline	5.2	U	5.2	0.23	ug/L		12/13/16 08:16	12/14/16 14:27	1
Anthracene	0.21	U	0.21	0.032	ug/L		12/13/16 08:16	12/14/16 14:27	1
Atrazine	2.1	U	2.1	0.12	ug/L		12/13/16 08:16	12/14/16 14:27	1
Benzaldehyde	2.1	U	2.1	0.31	ug/L		12/13/16 08:16	12/14/16 14:27	1
Benzo[a]anthracene	0.21	U	0.21	0.061	ug/L		12/13/16 08:16	12/14/16 14:27	1
Benzo[b]fluoranthene	0.21	U	0.21	0.061	ug/L		12/13/16 08:16	12/14/16 14:27	1
Benzo[k]fluoranthene	0.21	U	0.21	0.050	ug/L		12/13/16 08:16	12/14/16 14:27	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.052	ug/L		12/13/16 08:16	12/14/16 14:27	1
Benzo[a]pyrene	0.21	U	0.21	0.031	ug/L		12/13/16 08:16	12/14/16 14:27	1
Butyl benzyl phthalate	1.0	U	1.0	0.23	ug/L		12/13/16 08:16	12/14/16 14:27	1
1,1'-Biphenyl	1.0	U	1.0	0.13	ug/L		12/13/16 08:16	12/14/16 14:27	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.039	ug/L		12/13/16 08:16	12/14/16 14:27	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.20	ug/L		12/13/16 08:16	12/14/16 14:27	1
Bis(2-ethylhexyl) phthalate	2.1	U	2.1	1.6	ug/L		12/13/16 08:16	12/14/16 14:27	1
4-Bromophenyl phenyl ether	2.1	U	2.1	0.36	ug/L		12/13/16 08:16	12/14/16 14:27	1
Caprolactam	**1.8**	**J B**	5.2	0.39	ug/L		12/13/16 08:16	12/14/16 14:27	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/13/16 08:16	12/14/16 14:27	1
4-Chloroaniline	2.1	U	2.1	0.16	ug/L		12/13/16 08:16	12/14/16 14:27	1
4-Chloro-3-methylphenol	2.1	U	2.1	0.29	ug/L		12/13/16 08:16	12/14/16 14:27	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/13/16 08:16	12/14/16 14:27	1
2-Chlorophenol	1.0	U	1.0	0.14	ug/L		12/13/16 08:16	12/14/16 14:27	1
4-Chlorophenyl phenyl ether	2.1	U	2.1	0.31	ug/L		12/13/16 08:16	12/14/16 14:27	1
Chrysene	0.21	U	0.21	0.036	ug/L		12/13/16 08:16	12/14/16 14:27	1
2-Methylnaphthalene	0.21	U	0.21	0.039	ug/L		12/13/16 08:16	12/14/16 14:27	1
3 & 4 Methylphenol	2.1	U	2.1	0.35	ug/L		12/13/16 08:16	12/14/16 14:27	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.042	ug/L		12/13/16 08:16	12/14/16 14:27	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/13/16 08:16	12/14/16 14:27	1
3,3'-Dichlorobenzidine	5.2	U	5.2	0.37	ug/L		12/13/16 08:16	12/14/16 14:27	1
2,4-Dichlorophenol	2.1	U	2.1	0.31	ug/L		12/13/16 08:16	12/14/16 14:27	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/13/16 08:16	12/14/16 14:27	1
2,4-Dimethylphenol	2.1	U	2.1	0.33	ug/L		12/13/16 08:16	12/14/16 14:27	1
Dimethyl phthalate	1.0	U	1.0	0.11	ug/L		12/13/16 08:16	12/14/16 14:27	1
4,6-Dinitro-2-methylphenol	5.2	U	5.2	0.55	ug/L		12/13/16 08:16	12/14/16 14:27	1
2,4-Dinitrophenol	42	U	42	6.4	ug/L		12/13/16 08:16	12/14/16 14:27	1
2,4-Dinitrotoluene	5.2	U	5.2	0.27	ug/L		12/13/16 08:16	12/14/16 14:27	1
Di-n-butyl phthalate	1.0	U	1.0	0.41	ug/L		12/13/16 08:16	12/14/16 14:27	1
Di-n-octyl phthalate	1.0	U	1.0	0.38	ug/L		12/13/16 08:16	12/14/16 14:27	1
Fluoranthene	0.21	U	0.21	0.028	ug/L		12/13/16 08:16	12/14/16 14:27	1
Fluorene	0.21	U	0.21	0.035	ug/L		12/13/16 08:16	12/14/16 14:27	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/13/16 08:16	12/14/16 14:27	1

Client Sample ID: 20161207UAW02-40V41N
Date Collected: 12/07/16 12:30
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.15	ug/L		12/13/16 08:16	12/14/16 14:27	1
Hexachlorocyclopentadiene	10	U	10	2.6	ug/L		12/13/16 08:16	12/14/16 14:27	1
Hexachloroethane	1.0	U	1.0	0.23	ug/L		12/13/16 08:16	12/14/16 14:27	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.050	ug/L		12/13/16 08:16	12/14/16 14:27	1
Isophorone	1.0	U	1.0	0.044	ug/L		12/13/16 08:16	12/14/16 14:27	1
2-Methylphenol	1.0	U	1.0	0.20	ug/L		12/13/16 08:16	12/14/16 14:27	1
Naphthalene	0.21	U	0.21	0.045	ug/L		12/13/16 08:16	12/14/16 14:27	1
2-Nitroaniline	2.1	U	2.1	0.32	ug/L		12/13/16 08:16	12/14/16 14:27	1
3-Nitroaniline	2.1	U	2.1	0.28	ug/L		12/13/16 08:16	12/14/16 14:27	1
4-Nitroaniline	2.1	U	2.1	0.25	ug/L		12/13/16 08:16	12/14/16 14:27	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/13/16 08:16	12/14/16 14:27	1
2-Nitrophenol	2.1	U	2.1	0.22	ug/L		12/13/16 08:16	12/14/16 14:27	1
4-Nitrophenol	5.2	U	5.2	0.61	ug/L		12/13/16 08:16	12/14/16 14:27	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.12	ug/L		12/13/16 08:16	12/14/16 14:27	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.17	ug/L		12/13/16 08:16	12/14/16 14:27	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.19	ug/L		12/13/16 08:16	12/14/16 14:27	1
Pentachlorophenol	42	U	42	5.7	ug/L		12/13/16 08:16	12/14/16 14:27	1
Phenanthrene	0.21	U	0.21	0.032	ug/L		12/13/16 08:16	12/14/16 14:27	1
Phenol	1.0	U	1.0	0.16	ug/L		12/13/16 08:16	12/14/16 14:27	1
Pyrene	0.21	U	0.21	0.029	ug/L		12/13/16 08:16	12/14/16 14:27	1
2,4,5-Trichlorophenol	5.2	U	5.2	0.38	ug/L		12/13/16 08:16	12/14/16 14:27	1
2,4,6-Trichlorophenol	5.2	U	5.2	0.27	ug/L		12/13/16 08:16	12/14/16 14:27	1
2,6-Dinitrotoluene	5.2	U	5.2	0.24	ug/L		12/13/16 08:16	12/14/16 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*44 - 120*	*12/13/16 08:16*	*12/14/16 14:27*	*1*
2-Fluorophenol (Surr)	*84*		*26 - 120*	*12/13/16 08:16*	*12/14/16 14:27*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*36 - 120*	*12/13/16 08:16*	*12/14/16 14:27*	*1*
Nitrobenzene-d5 (Surr)	*68*		*44 - 120*	*12/13/16 08:16*	*12/14/16 14:27*	*1*
Phenol-d5 (Surr)	*57*		*16 - 120*	*12/13/16 08:16*	*12/14/16 14:27*	*1*
Terphenyl-d14 (Surr)	*77*		*43 - 120*	*12/13/16 08:16*	*12/14/16 14:27*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**240**		200	40	ug/L		12/12/16 14:00	12/13/16 23:45	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/13/16 23:45	1
Barium	**200**		200	2.4	ug/L		12/12/16 14:00	12/13/16 23:45	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/12/16 14:00	12/13/16 23:45	1
Calcium	**150000**		5000	710	ug/L		12/12/16 14:00	12/13/16 23:45	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/13/16 23:45	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/12/16 14:00	12/13/16 23:45	1
Chromium	**22**		5.0	0.55	ug/L		12/12/16 14:00	12/13/16 23:45	1
Copper	**11**	**J**	25	3.9	ug/L		12/12/16 14:00	12/13/16 23:45	1
Iron	**13000**		100	25	ug/L		12/12/16 14:00	12/13/16 23:45	1
Potassium	**2300**	**J B**	5000	70	ug/L		12/12/16 14:00	12/13/16 23:45	1
Magnesium	**33000**		5000	230	ug/L		12/12/16 14:00	12/13/16 23:45	1
Manganese	**1100**		15	5.1	ug/L		12/12/16 14:00	12/13/16 23:45	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/13/16 23:45	1
Sodium	**87000**	**B**	5000	330	ug/L		12/12/16 14:00	12/13/16 23:45	1
Nickel	**1.8**	**J**	40	1.6	ug/L		12/12/16 14:00	12/13/16 23:45	1

Client Sample ID: 20161207UAW02-40V41N
Date Collected: 12/07/16 12:30
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-6
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/13/16 23:45	1
Zinc	**35**	**J**	50	16	ug/L		12/12/16 14:00	12/13/16 23:45	1
Arsenic	**3.6**	**J**	10	3.3	ug/L		12/12/16 14:00	12/13/16 23:45	1
Lead	**4.6**	**J**	5.0	1.9	ug/L		12/12/16 14:00	12/13/16 23:45	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/13/16 23:45	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/13/16 23:45	1
Tin	**2.6**	**J**	100	1.8	ug/L		12/12/16 14:00	12/13/16 23:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 12:56	1

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161207UAW02-40V41FD
Date Collected: 12/07/16 12:30
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/17/16 13:46	1
Benzene	1.0	U	1.0	0.28	ug/L			12/17/16 13:46	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/17/16 13:46	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/17/16 13:46	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/17/16 13:46	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/17/16 13:46	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/17/16 13:46	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/17/16 13:46	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 13:46	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/17/16 13:46	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/17/16 13:46	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/17/16 13:46	1
cis-1,2-Dichloroethene	**20**		1.0	0.30	ug/L			12/17/16 13:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/17/16 13:46	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/17/16 13:46	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/17/16 13:46	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/17/16 13:46	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/17/16 13:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/17/16 13:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 13:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/17/16 13:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/17/16 13:46	1
1,1-Dichloroethane	**4.7**		1.0	0.25	ug/L			12/17/16 13:46	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/17/16 13:46	1
1,1-Dichloroethene	**2.6**		1.0	0.27	ug/L			12/17/16 13:46	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/17/16 13:46	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/17/16 13:46	1
2-Hexanone	10	U	10	1.2	ug/L			12/17/16 13:46	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/17/16 13:46	1
Methyl acetate	10	U	10	1.4	ug/L			12/17/16 13:46	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/17/16 13:46	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/17/16 13:46	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/17/16 13:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/17/16 13:46	1
Styrene	1.0	U	1.0	0.23	ug/L			12/17/16 13:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/17/16 13:46	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 13:46	1
Toluene	1.0	U	1.0	0.23	ug/L			12/17/16 13:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/17/16 13:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/17/16 13:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/17/16 13:46	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/17/16 13:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/17/16 13:46	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/17/16 13:46	1
Trichlorofluoromethane	1.0	U *	1.0	0.50	ug/L			12/17/16 13:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/17/16 13:46	1
Vinyl chloride	**5.8**		1.0	0.45	ug/L			12/17/16 13:46	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/17/16 13:46	1

Client Sample ID: 20161207UAW02-40V41FD
Date Collected: 12/07/16 12:30
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		73 - 120		12/17/16 13:46	1
Dibromofluoromethane (Surr)	114		80 - 120		12/17/16 13:46	1
1,2-Dichloroethane-d4 (Surr)	105		63 - 132		12/17/16 13:46	1
Toluene-d8 (Surr)	97		73 - 124		12/17/16 13:46	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.22	U	0.22	0.048	ug/L		12/13/16 08:16	12/14/16 14:51	1
Acenaphthylene	0.22	U	0.22	0.022	ug/L		12/13/16 08:16	12/14/16 14:51	1
Acetophenone	1.1	U	1.1	0.15	ug/L		12/13/16 08:16	12/14/16 14:51	1
Aniline	5.4	U	5.4	0.24	ug/L		12/13/16 08:16	12/14/16 14:51	1
Anthracene	0.22	U	0.22	0.034	ug/L		12/13/16 08:16	12/14/16 14:51	1
Atrazine	2.2	U	2.2	0.13	ug/L		12/13/16 08:16	12/14/16 14:51	1
Benzaldehyde	2.2	U	2.2	0.32	ug/L		12/13/16 08:16	12/14/16 14:51	1
Benzo[a]anthracene	0.22	U	0.22	0.064	ug/L		12/13/16 08:16	12/14/16 14:51	1
Benzo[b]fluoranthene	0.22	U	0.22	0.064	ug/L		12/13/16 08:16	12/14/16 14:51	1
Benzo[k]fluoranthene	0.22	U	0.22	0.052	ug/L		12/13/16 08:16	12/14/16 14:51	1
Benzo[g,h,i]perylene	0.22	U	0.22	0.054	ug/L		12/13/16 08:16	12/14/16 14:51	1
Benzo[a]pyrene	0.22	U	0.22	0.033	ug/L		12/13/16 08:16	12/14/16 14:51	1
Butyl benzyl phthalate	1.1	U	1.1	0.23	ug/L		12/13/16 08:16	12/14/16 14:51	1
1,1'-Biphenyl	1.1	U	1.1	0.13	ug/L		12/13/16 08:16	12/14/16 14:51	1
Bis(2-chloroethoxy)methane	1.1	U	1.1	0.040	ug/L		12/13/16 08:16	12/14/16 14:51	1
Bis(2-chloroethyl)ether	1.1	U	1.1	0.21	ug/L		12/13/16 08:16	12/14/16 14:51	1
Bis(2-ethylhexyl) phthalate	2.2	U	2.2	1.7	ug/L		12/13/16 08:16	12/14/16 14:51	1
4-Bromophenyl phenyl ether	2.2	U	2.2	0.38	ug/L		12/13/16 08:16	12/14/16 14:51	1
Caprolactam	**2.3**	**J B**	5.4	0.40	ug/L		12/13/16 08:16	12/14/16 14:51	1
Carbazole	1.1	U	1.1	0.11	ug/L		12/13/16 08:16	12/14/16 14:51	1
4-Chloroaniline	2.2	U	2.2	0.16	ug/L		12/13/16 08:16	12/14/16 14:51	1
4-Chloro-3-methylphenol	2.2	U	2.2	0.30	ug/L		12/13/16 08:16	12/14/16 14:51	1
2-Chloronaphthalene	1.1	U	1.1	0.13	ug/L		12/13/16 08:16	12/14/16 14:51	1
2-Chlorophenol	1.1	U	1.1	0.14	ug/L		12/13/16 08:16	12/14/16 14:51	1
4-Chlorophenyl phenyl ether	2.2	U	2.2	0.32	ug/L		12/13/16 08:16	12/14/16 14:51	1
Chrysene	0.22	U	0.22	0.038	ug/L		12/13/16 08:16	12/14/16 14:51	1
2-Methylnaphthalene	0.22	U	0.22	0.040	ug/L		12/13/16 08:16	12/14/16 14:51	1
3 & 4 Methylphenol	2.2	U	2.2	0.37	ug/L		12/13/16 08:16	12/14/16 14:51	1
Dibenz(a,h)anthracene	0.22	U	0.22	0.043	ug/L		12/13/16 08:16	12/14/16 14:51	1
Dibenzofuran	1.1	U	1.1	0.15	ug/L		12/13/16 08:16	12/14/16 14:51	1
3,3'-Dichlorobenzidine	5.4	U	5.4	0.38	ug/L		12/13/16 08:16	12/14/16 14:51	1
2,4-Dichlorophenol	2.2	U	2.2	0.32	ug/L		12/13/16 08:16	12/14/16 14:51	1
Diethyl phthalate	1.1	U	1.1	0.14	ug/L		12/13/16 08:16	12/14/16 14:51	1
2,4-Dimethylphenol	2.2	U	2.2	0.34	ug/L		12/13/16 08:16	12/14/16 14:51	1
Dimethyl phthalate	1.1	U	1.1	0.11	ug/L		12/13/16 08:16	12/14/16 14:51	1
4,6-Dinitro-2-methylphenol	5.4	U	5.4	0.57	ug/L		12/13/16 08:16	12/14/16 14:51	1
2,4-Dinitrophenol	43	U	43	6.7	ug/L		12/13/16 08:16	12/14/16 14:51	1
2,4-Dinitrotoluene	5.4	U	5.4	0.28	ug/L		12/13/16 08:16	12/14/16 14:51	1
Di-n-butyl phthalate	**0.52**	**J B**	1.1	0.43	ug/L		12/13/16 08:16	12/14/16 14:51	1
Di-n-octyl phthalate	1.1	U	1.1	0.40	ug/L		12/13/16 08:16	12/14/16 14:51	1
Fluoranthene	0.22	U	0.22	0.029	ug/L		12/13/16 08:16	12/14/16 14:51	1
Fluorene	0.22	U	0.22	0.037	ug/L		12/13/16 08:16	12/14/16 14:51	1
Hexachlorobenzene	1.1	U	1.1	0.13	ug/L		12/13/16 08:16	12/14/16 14:51	1

Client Sample ID: 20161207UAW02-40V41FD
Date Collected: 12/07/16 12:30
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-7
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.1	U	1.1	0.15	ug/L		12/13/16 08:16	12/14/16 14:51	1
Hexachlorocyclopentadiene	11	U	11	2.7	ug/L		12/13/16 08:16	12/14/16 14:51	1
Hexachloroethane	1.1	U	1.1	0.24	ug/L		12/13/16 08:16	12/14/16 14:51	1
Indeno[1,2,3-cd]pyrene	0.22	U	0.22	0.052	ug/L		12/13/16 08:16	12/14/16 14:51	1
Isophorone	1.1	U	1.1	0.046	ug/L		12/13/16 08:16	12/14/16 14:51	1
2-Methylphenol	1.1	U	1.1	0.20	ug/L		12/13/16 08:16	12/14/16 14:51	1
Naphthalene	0.22	U	0.22	0.047	ug/L		12/13/16 08:16	12/14/16 14:51	1
2-Nitroaniline	2.2	U	2.2	0.33	ug/L		12/13/16 08:16	12/14/16 14:51	1
3-Nitroaniline	2.2	U	2.2	0.29	ug/L		12/13/16 08:16	12/14/16 14:51	1
4-Nitroaniline	2.2	U	2.2	0.26	ug/L		12/13/16 08:16	12/14/16 14:51	1
Nitrobenzene	1.1	U	1.1	0.13	ug/L		12/13/16 08:16	12/14/16 14:51	1
2-Nitrophenol	2.2	U	2.2	0.23	ug/L		12/13/16 08:16	12/14/16 14:51	1
4-Nitrophenol	5.4	U	5.4	0.64	ug/L		12/13/16 08:16	12/14/16 14:51	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.12	ug/L		12/13/16 08:16	12/14/16 14:51	1
N-Nitrosodi-n-propylamine	1.1	U	1.1	0.17	ug/L		12/13/16 08:16	12/14/16 14:51	1
2,2'-oxybis(1-chloropropane)	1.1	U	1.1	0.20	ug/L		12/13/16 08:16	12/14/16 14:51	1
Pentachlorophenol	43	U	43	5.9	ug/L		12/13/16 08:16	12/14/16 14:51	1
Phenanthrene	0.22	U	0.22	0.034	ug/L		12/13/16 08:16	12/14/16 14:51	1
Phenol	1.1	U	1.1	0.16	ug/L		12/13/16 08:16	12/14/16 14:51	1
Pyrene	0.22	U	0.22	0.030	ug/L		12/13/16 08:16	12/14/16 14:51	1
2,4,5-Trichlorophenol	5.4	U	5.4	0.40	ug/L		12/13/16 08:16	12/14/16 14:51	1
2,4,6-Trichlorophenol	5.4	U	5.4	0.28	ug/L		12/13/16 08:16	12/14/16 14:51	1
2,6-Dinitrotoluene	5.4	U	5.4	0.26	ug/L		12/13/16 08:16	12/14/16 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*44 - 120*	*12/13/16 08:16*	*12/14/16 14:51*	*1*
2-Fluorophenol (Surr)	*82*		*26 - 120*	*12/13/16 08:16*	*12/14/16 14:51*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*36 - 120*	*12/13/16 08:16*	*12/14/16 14:51*	*1*
Nitrobenzene-d5 (Surr)	*67*		*44 - 120*	*12/13/16 08:16*	*12/14/16 14:51*	*1*
Phenol-d5 (Surr)	*58*		*16 - 120*	*12/13/16 08:16*	*12/14/16 14:51*	*1*
Terphenyl-d14 (Surr)	*78*		*43 - 120*	*12/13/16 08:16*	*12/14/16 14:51*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**99**	**J**	200	40	ug/L		12/12/16 14:00	12/13/16 23:49	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/13/16 23:49	1
Barium	**180**	**J**	200	2.4	ug/L		12/12/16 14:00	12/13/16 23:49	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/12/16 14:00	12/13/16 23:49	1
Calcium	**150000**		5000	710	ug/L		12/12/16 14:00	12/13/16 23:49	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/13/16 23:49	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/12/16 14:00	12/13/16 23:49	1
Chromium	**18**		5.0	0.55	ug/L		12/12/16 14:00	12/13/16 23:49	1
Copper	**6.1**	**J**	25	3.9	ug/L		12/12/16 14:00	12/13/16 23:49	1
Iron	**9000**		100	25	ug/L		12/12/16 14:00	12/13/16 23:49	1
Potassium	**2200**	**J B**	5000	70	ug/L		12/12/16 14:00	12/13/16 23:49	1
Magnesium	**33000**		5000	230	ug/L		12/12/16 14:00	12/13/16 23:49	1
Manganese	**1100**		15	5.1	ug/L		12/12/16 14:00	12/13/16 23:49	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/13/16 23:49	1
Sodium	**88000**	**B**	5000	330	ug/L		12/12/16 14:00	12/13/16 23:49	1
Nickel	**1.7**	**J**	40	1.6	ug/L		12/12/16 14:00	12/13/16 23:49	1

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161207UAW02-40V41FD
Date Collected: 12/07/16 12:30
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-7
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/13/16 23:49	1
Zinc	**16**	**J**	50	16	ug/L		12/12/16 14:00	12/13/16 23:49	1
Arsenic	10	U	10	3.3	ug/L		12/12/16 14:00	12/13/16 23:49	1
Lead	**3.4**	**J**	5.0	1.9	ug/L		12/12/16 14:00	12/13/16 23:49	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/13/16 23:49	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/13/16 23:49	1
Tin	100	U	100	1.8	ug/L		12/12/16 14:00	12/13/16 23:49	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 12:58	1

Client Sample ID: 20161207UAW03-20V15N
Date Collected: 12/07/16 14:45
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/17/16 14:09	1
Benzene	**0.77**	**J**	1.0	0.28	ug/L			12/17/16 14:09	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/17/16 14:09	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/17/16 14:09	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/17/16 14:09	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/17/16 14:09	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/17/16 14:09	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/17/16 14:09	1
Chlorobenzene	**14**		1.0	0.32	ug/L			12/17/16 14:09	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/17/16 14:09	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/17/16 14:09	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/17/16 14:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 14:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/17/16 14:09	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/17/16 14:09	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/17/16 14:09	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/17/16 14:09	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/17/16 14:09	1
1,2-Dichlorobenzene	**8.1**		1.0	0.26	ug/L			12/17/16 14:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 14:09	1
1,4-Dichlorobenzene	**1.8**		1.0	0.23	ug/L			12/17/16 14:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/17/16 14:09	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/17/16 14:09	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/17/16 14:09	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/17/16 14:09	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/17/16 14:09	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/17/16 14:09	1
2-Hexanone	10	U	10	1.2	ug/L			12/17/16 14:09	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/17/16 14:09	1
Methyl acetate	10	U	10	1.4	ug/L			12/17/16 14:09	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/17/16 14:09	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/17/16 14:09	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/17/16 14:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/17/16 14:09	1
Styrene	1.0	U	1.0	0.23	ug/L			12/17/16 14:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/17/16 14:09	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 14:09	1
Toluene	1.0	U	1.0	0.23	ug/L			12/17/16 14:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/17/16 14:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/17/16 14:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/17/16 14:09	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/17/16 14:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/17/16 14:09	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/17/16 14:09	1
Trichlorofluoromethane	1.0	U *	1.0	0.50	ug/L			12/17/16 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/17/16 14:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/17/16 14:09	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/17/16 14:09	1

Client Sample ID: 20161207UAW03-20V15N
Date Collected: 12/07/16 14:45
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/17/16 14:09*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*12/17/16 14:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 132*		*12/17/16 14:09*	*1*
Toluene-d8 (Surr)	*98*		*73 - 124*		*12/17/16 14:09*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.22	U	0.22	0.048	ug/L		12/13/16 08:16	12/14/16 15:16	1
Acenaphthylene	0.22	U	0.22	0.022	ug/L		12/13/16 08:16	12/14/16 15:16	1
Acetophenone	1.1	U	1.1	0.15	ug/L		12/13/16 08:16	12/14/16 15:16	1
Aniline	5.4	U	5.4	0.24	ug/L		12/13/16 08:16	12/14/16 15:16	1
Anthracene	0.22	U	0.22	0.034	ug/L		12/13/16 08:16	12/14/16 15:16	1
Atrazine	2.2	U	2.2	0.13	ug/L		12/13/16 08:16	12/14/16 15:16	1
Benzaldehyde	2.2	U	2.2	0.32	ug/L		12/13/16 08:16	12/14/16 15:16	1
Benzo[a]anthracene	0.22	U	0.22	0.064	ug/L		12/13/16 08:16	12/14/16 15:16	1
Benzo[b]fluoranthene	0.22	U	0.22	0.064	ug/L		12/13/16 08:16	12/14/16 15:16	1
Benzo[k]fluoranthene	0.22	U	0.22	0.052	ug/L		12/13/16 08:16	12/14/16 15:16	1
Benzo[g,h,i]perylene	0.22	U	0.22	0.054	ug/L		12/13/16 08:16	12/14/16 15:16	1
Benzo[a]pyrene	0.22	U	0.22	0.033	ug/L		12/13/16 08:16	12/14/16 15:16	1
Butyl benzyl phthalate	1.1	U	1.1	0.23	ug/L		12/13/16 08:16	12/14/16 15:16	1
1,1'-Biphenyl	1.1	U	1.1	0.13	ug/L		12/13/16 08:16	12/14/16 15:16	1
Bis(2-chloroethoxy)methane	1.1	U	1.1	0.040	ug/L		12/13/16 08:16	12/14/16 15:16	1
Bis(2-chloroethyl)ether	1.1	U	1.1	0.21	ug/L		12/13/16 08:16	12/14/16 15:16	1
Bis(2-ethylhexyl) phthalate	2.2	U	2.2	1.7	ug/L		12/13/16 08:16	12/14/16 15:16	1
4-Bromophenyl phenyl ether	2.2	U	2.2	0.38	ug/L		12/13/16 08:16	12/14/16 15:16	1
Caprolactam	**4.5**	**J B**	5.4	0.40	ug/L		12/13/16 08:16	12/14/16 15:16	1
Carbazole	1.1	U	1.1	0.11	ug/L		12/13/16 08:16	12/14/16 15:16	1
4-Chloroaniline	2.2	U	2.2	0.16	ug/L		12/13/16 08:16	12/14/16 15:16	1
4-Chloro-3-methylphenol	2.2	U	2.2	0.30	ug/L		12/13/16 08:16	12/14/16 15:16	1
2-Chloronaphthalene	1.1	U	1.1	0.13	ug/L		12/13/16 08:16	12/14/16 15:16	1
2-Chlorophenol	1.1	U	1.1	0.14	ug/L		12/13/16 08:16	12/14/16 15:16	1
4-Chlorophenyl phenyl ether	2.2	U	2.2	0.32	ug/L		12/13/16 08:16	12/14/16 15:16	1
Chrysene	0.22	U	0.22	0.038	ug/L		12/13/16 08:16	12/14/16 15:16	1
2-Methylnaphthalene	0.22	U	0.22	0.040	ug/L		12/13/16 08:16	12/14/16 15:16	1
3 & 4 Methylphenol	2.2	U	2.2	0.37	ug/L		12/13/16 08:16	12/14/16 15:16	1
Dibenz(a,h)anthracene	0.22	U	0.22	0.043	ug/L		12/13/16 08:16	12/14/16 15:16	1
Dibenzofuran	1.1	U	1.1	0.15	ug/L		12/13/16 08:16	12/14/16 15:16	1
3,3'-Dichlorobenzidine	5.4	U	5.4	0.38	ug/L		12/13/16 08:16	12/14/16 15:16	1
2,4-Dichlorophenol	2.2	U	2.2	0.32	ug/L		12/13/16 08:16	12/14/16 15:16	1
Diethyl phthalate	1.1	U	1.1	0.14	ug/L		12/13/16 08:16	12/14/16 15:16	1
2,4-Dimethylphenol	2.2	U	2.2	0.34	ug/L		12/13/16 08:16	12/14/16 15:16	1
Dimethyl phthalate	1.1	U	1.1	0.11	ug/L		12/13/16 08:16	12/14/16 15:16	1
4,6-Dinitro-2-methylphenol	5.4	U	5.4	0.57	ug/L		12/13/16 08:16	12/14/16 15:16	1
2,4-Dinitrophenol	43	U	43	6.7	ug/L		12/13/16 08:16	12/14/16 15:16	1
2,4-Dinitrotoluene	5.4	U	5.4	0.28	ug/L		12/13/16 08:16	12/14/16 15:16	1
Di-n-butyl phthalate	**0.50**	**J B**	1.1	0.43	ug/L		12/13/16 08:16	12/14/16 15:16	1
Di-n-octyl phthalate	1.1	U	1.1	0.40	ug/L		12/13/16 08:16	12/14/16 15:16	1
Fluoranthene	0.22	U	0.22	0.029	ug/L		12/13/16 08:16	12/14/16 15:16	1
Fluorene	0.22	U	0.22	0.037	ug/L		12/13/16 08:16	12/14/16 15:16	1
Hexachlorobenzene	1.1	U	1.1	0.13	ug/L		12/13/16 08:16	12/14/16 15:16	1

Client Sample ID: 20161207UAW03-20V15N
Date Collected: 12/07/16 14:45
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-8
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.1	U	1.1	0.15	ug/L		12/13/16 08:16	12/14/16 15:16	1
Hexachlorocyclopentadiene	11	U	11	2.7	ug/L		12/13/16 08:16	12/14/16 15:16	1
Hexachloroethane	1.1	U	1.1	0.24	ug/L		12/13/16 08:16	12/14/16 15:16	1
Indeno[1,2,3-cd]pyrene	0.22	U	0.22	0.052	ug/L		12/13/16 08:16	12/14/16 15:16	1
Isophorone	1.1	U	1.1	0.046	ug/L		12/13/16 08:16	12/14/16 15:16	1
2-Methylphenol	1.1	U	1.1	0.20	ug/L		12/13/16 08:16	12/14/16 15:16	1
Naphthalene	0.22	U	0.22	0.047	ug/L		12/13/16 08:16	12/14/16 15:16	1
2-Nitroaniline	2.2	U	2.2	0.33	ug/L		12/13/16 08:16	12/14/16 15:16	1
3-Nitroaniline	2.2	U	2.2	0.29	ug/L		12/13/16 08:16	12/14/16 15:16	1
4-Nitroaniline	2.2	U	2.2	0.26	ug/L		12/13/16 08:16	12/14/16 15:16	1
Nitrobenzene	1.1	U	1.1	0.13	ug/L		12/13/16 08:16	12/14/16 15:16	1
2-Nitrophenol	2.2	U	2.2	0.23	ug/L		12/13/16 08:16	12/14/16 15:16	1
4-Nitrophenol	5.4	U	5.4	0.64	ug/L		12/13/16 08:16	12/14/16 15:16	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.12	ug/L		12/13/16 08:16	12/14/16 15:16	1
N-Nitrosodi-n-propylamine	1.1	U	1.1	0.17	ug/L		12/13/16 08:16	12/14/16 15:16	1
2,2'-oxybis(1-chloropropane)	1.1	U	1.1	0.20	ug/L		12/13/16 08:16	12/14/16 15:16	1
Pentachlorophenol	43	U	43	5.9	ug/L		12/13/16 08:16	12/14/16 15:16	1
Phenanthrene	0.22	U	0.22	0.034	ug/L		12/13/16 08:16	12/14/16 15:16	1
Phenol	1.1	U	1.1	0.16	ug/L		12/13/16 08:16	12/14/16 15:16	1
Pyrene	0.22	U	0.22	0.030	ug/L		12/13/16 08:16	12/14/16 15:16	1
2,4,5-Trichlorophenol	5.4	U	5.4	0.40	ug/L		12/13/16 08:16	12/14/16 15:16	1
2,4,6-Trichlorophenol	5.4	U	5.4	0.28	ug/L		12/13/16 08:16	12/14/16 15:16	1
2,6-Dinitrotoluene	5.4	U	5.4	0.26	ug/L		12/13/16 08:16	12/14/16 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*44 - 120*	*12/13/16 08:16*	*12/14/16 15:16*	*1*
2-Fluorophenol (Surr)	*98*		*26 - 120*	*12/13/16 08:16*	*12/14/16 15:16*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*36 - 120*	*12/13/16 08:16*	*12/14/16 15:16*	*1*
Nitrobenzene-d5 (Surr)	*69*		*44 - 120*	*12/13/16 08:16*	*12/14/16 15:16*	*1*
Phenol-d5 (Surr)	*63*		*16 - 120*	*12/13/16 08:16*	*12/14/16 15:16*	*1*
Terphenyl-d14 (Surr)	*79*		*43 - 120*	*12/13/16 08:16*	*12/14/16 15:16*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2100**		200	40	ug/L		12/12/16 14:00	12/13/16 23:53	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/13/16 23:53	1
Barium	**49**	**J**	200	2.4	ug/L		12/12/16 14:00	12/13/16 23:53	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/12/16 14:00	12/13/16 23:53	1
Calcium	**110000**		5000	710	ug/L		12/12/16 14:00	12/13/16 23:53	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/13/16 23:53	1
Cobalt	**2.2**	**J**	7.0	0.84	ug/L		12/12/16 14:00	12/13/16 23:53	1
Chromium	**20**		5.0	0.55	ug/L		12/12/16 14:00	12/13/16 23:53	1
Copper	**14**	**J**	25	3.9	ug/L		12/12/16 14:00	12/13/16 23:53	1
Iron	**4400**		100	25	ug/L		12/12/16 14:00	12/13/16 23:53	1
Potassium	**4300**	**J B**	5000	70	ug/L		12/12/16 14:00	12/13/16 23:53	1
Magnesium	**18000**		5000	230	ug/L		12/12/16 14:00	12/13/16 23:53	1
Manganese	**450**		15	5.1	ug/L		12/12/16 14:00	12/13/16 23:53	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/13/16 23:53	1
Sodium	**220000**	**B**	5000	330	ug/L		12/12/16 14:00	12/13/16 23:53	1
Nickel	**57**		40	1.6	ug/L		12/12/16 14:00	12/13/16 23:53	1

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161207UAW03-20V15N
Date Collected: 12/07/16 14:45
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-8
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	**6.8**	**J**	10	4.4	ug/L		12/12/16 14:00	12/13/16 23:53	1
Zinc	**48**	**J**	50	16	ug/L		12/12/16 14:00	12/13/16 23:53	1
Arsenic	10	U	10	3.3	ug/L		12/12/16 14:00	12/13/16 23:53	1
Lead	**5.5**		5.0	1.9	ug/L		12/12/16 14:00	12/13/16 23:53	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/13/16 23:53	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/13/16 23:53	1
Tin	**350**		100	1.8	ug/L		12/12/16 14:00	12/13/16 23:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 13:00	1

Client Sample ID: 20161208UAW26-70V72N
Date Collected: 12/08/16 10:00
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U F2	10	1.8	ug/L			12/17/16 14:32	1
Benzene	1.0	U	1.0	0.28	ug/L			12/17/16 14:32	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/17/16 14:32	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/17/16 14:32	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/17/16 14:32	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/17/16 14:32	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/17/16 14:32	1
Carbon tetrachloride	1.0	U F1 *	1.0	0.35	ug/L			12/17/16 14:32	1
Chlorobenzene	**0.59**	**J**	1.0	0.32	ug/L			12/17/16 14:32	1
Chloroethane	1.0	U F2	1.0	0.41	ug/L			12/17/16 14:32	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/17/16 14:32	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/17/16 14:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 14:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/17/16 14:32	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/17/16 14:32	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/17/16 14:32	1
1,2-Dibromo-3-Chloropropane	2.0	U F2	2.0	0.47	ug/L			12/17/16 14:32	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/17/16 14:32	1
1,2-Dichlorobenzene	**1.9**	**F1**	1.0	0.26	ug/L			12/17/16 14:32	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 14:32	1
1,4-Dichlorobenzene	**0.38**	**J**	1.0	0.23	ug/L			12/17/16 14:32	1
Dichlorodifluoromethane	1.0	U F2	1.0	0.50	ug/L			12/17/16 14:32	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/17/16 14:32	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/17/16 14:32	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/17/16 14:32	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/17/16 14:32	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/17/16 14:32	1
2-Hexanone	10	U	10	1.2	ug/L			12/17/16 14:32	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/17/16 14:32	1
Methyl acetate	10	U	10	1.4	ug/L			12/17/16 14:32	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/17/16 14:32	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/17/16 14:32	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/17/16 14:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/17/16 14:32	1
Styrene	1.0	U	1.0	0.23	ug/L			12/17/16 14:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/17/16 14:32	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 14:32	1
Toluene	1.0	U	1.0	0.23	ug/L			12/17/16 14:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/17/16 14:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/17/16 14:32	1
1,2,4-Trichlorobenzene	1.0	U F2	1.0	0.27	ug/L			12/17/16 14:32	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/17/16 14:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/17/16 14:32	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/17/16 14:32	1
Trichlorofluoromethane	1.0	U *	1.0	0.50	ug/L			12/17/16 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/17/16 14:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/17/16 14:32	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/17/16 14:32	1

Client Sample ID: 20161208UAW26-70V72N
Date Collected: 12/08/16 10:00
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*12/17/16 14:32*	*1*
Dibromofluoromethane (Surr)	*117*		*80 - 120*		*12/17/16 14:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 132*		*12/17/16 14:32*	*1*
Toluene-d8 (Surr)	*97*		*73 - 124*		*12/17/16 14:32*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.24	U	0.24	0.052	ug/L		12/15/16 10:52	12/21/16 11:27	1
Acenaphthylene	0.24	U	0.24	0.024	ug/L		12/15/16 10:52	12/21/16 11:27	1
Acetophenone	1.2	U	1.2	0.17	ug/L		12/15/16 10:52	12/21/16 11:27	1
Aniline	6.0	U	6.0	0.26	ug/L		12/15/16 10:52	12/21/16 11:27	1
Anthracene	0.24	U	0.24	0.037	ug/L		12/15/16 10:52	12/21/16 11:27	1
Atrazine	2.4	U	2.4	0.14	ug/L		12/15/16 10:52	12/21/16 11:27	1
Benzaldehyde	2.4	U F2	2.4	0.35	ug/L		12/15/16 10:52	12/21/16 11:27	1
Benzo[a]anthracene	0.24	U	0.24	0.070	ug/L		12/15/16 10:52	12/21/16 11:27	1
Benzo[b]fluoranthene	0.24	U	0.24	0.070	ug/L		12/15/16 10:52	12/21/16 11:27	1
Benzo[k]fluoranthene	0.24	U	0.24	0.057	ug/L		12/15/16 10:52	12/21/16 11:27	1
Benzo[g,h,i]perylene	0.24	U	0.24	0.060	ug/L		12/15/16 10:52	12/21/16 11:27	1
Benzo[a]pyrene	0.24	U	0.24	0.036	ug/L		12/15/16 10:52	12/21/16 11:27	1
Butyl benzyl phthalate	1.2	U	1.2	0.26	ug/L		12/15/16 10:52	12/21/16 11:27	1
1,1'-Biphenyl	1.2	U	1.2	0.15	ug/L		12/15/16 10:52	12/21/16 11:27	1
Bis(2-chloroethoxy)methane	1.2	U	1.2	0.044	ug/L		12/15/16 10:52	12/21/16 11:27	1
Bis(2-chloroethyl)ether	1.2	U	1.2	0.23	ug/L		12/15/16 10:52	12/21/16 11:27	1
Bis(2-ethylhexyl) phthalate	2.4	U	2.4	1.8	ug/L		12/15/16 10:52	12/21/16 11:27	1
4-Bromophenyl phenyl ether	2.4	U	2.4	0.41	ug/L		12/15/16 10:52	12/21/16 11:27	1
Caprolactam	6.0	U *	6.0	0.44	ug/L		12/15/16 10:52	12/21/16 11:27	1
Carbazole	1.2	U	1.2	0.13	ug/L		12/15/16 10:52	12/21/16 11:27	1
4-Chloroaniline	2.4	U	2.4	0.18	ug/L		12/15/16 10:52	12/21/16 11:27	1
4-Chloro-3-methylphenol	2.4	U	2.4	0.33	ug/L		12/15/16 10:52	12/21/16 11:27	1
2-Chloronaphthalene	1.2	U	1.2	0.14	ug/L		12/15/16 10:52	12/21/16 11:27	1
2-Chlorophenol	1.2	U	1.2	0.16	ug/L		12/15/16 10:52	12/21/16 11:27	1
4-Chlorophenyl phenyl ether	2.4	U	2.4	0.35	ug/L		12/15/16 10:52	12/21/16 11:27	1
Chrysene	0.24	U	0.24	0.042	ug/L		12/15/16 10:52	12/21/16 11:27	1
2-Methylnaphthalene	0.24	U	0.24	0.044	ug/L		12/15/16 10:52	12/21/16 11:27	1
3 & 4 Methylphenol	2.4	U	2.4	0.40	ug/L		12/15/16 10:52	12/21/16 11:27	1
Dibenz(a,h)anthracene	0.24	U	0.24	0.048	ug/L		12/15/16 10:52	12/21/16 11:27	1
Dibenzofuran	1.2	U	1.2	0.16	ug/L		12/15/16 10:52	12/21/16 11:27	1
3,3'-Dichlorobenzidine	6.0	U	6.0	0.42	ug/L		12/15/16 10:52	12/21/16 11:27	1
2,4-Dichlorophenol	2.4	U	2.4	0.35	ug/L		12/15/16 10:52	12/21/16 11:27	1
Diethyl phthalate	1.2	U	1.2	0.15	ug/L		12/15/16 10:52	12/21/16 11:27	1
2,4-Dimethylphenol	2.4	U	2.4	0.37	ug/L		12/15/16 10:52	12/21/16 11:27	1
Dimethyl phthalate	1.2	U	1.2	0.12	ug/L		12/15/16 10:52	12/21/16 11:27	1
4,6-Dinitro-2-methylphenol	6.0	U	6.0	0.63	ug/L		12/15/16 10:52	12/21/16 11:27	1
2,4-Dinitrophenol	48	U	48	7.3	ug/L		12/15/16 10:52	12/21/16 11:27	1
2,4-Dinitrotoluene	6.0	U	6.0	0.30	ug/L		12/15/16 10:52	12/21/16 11:27	1
Di-n-butyl phthalate	1.2	U	1.2	0.47	ug/L		12/15/16 10:52	12/21/16 11:27	1
Di-n-octyl phthalate	1.2	U	1.2	0.43	ug/L		12/15/16 10:52	12/21/16 11:27	1
Fluoranthene	0.24	U	0.24	0.032	ug/L		12/15/16 10:52	12/21/16 11:27	1
Fluorene	0.24	U	0.24	0.040	ug/L		12/15/16 10:52	12/21/16 11:27	1
Hexachlorobenzene	1.2	U	1.2	0.14	ug/L		12/15/16 10:52	12/21/16 11:27	1

Client Sample ID: 20161208UAW26-70V72N
Date Collected: 12/08/16 10:00
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-9
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.2	U	1.2	0.17	ug/L		12/15/16 10:52	12/21/16 11:27	1
Hexachlorocyclopentadiene	12	U	12	2.9	ug/L		12/15/16 10:52	12/21/16 11:27	1
Hexachloroethane	1.2	U	1.2	0.26	ug/L		12/15/16 10:52	12/21/16 11:27	1
Indeno[1,2,3-cd]pyrene	0.24	U	0.24	0.057	ug/L		12/15/16 10:52	12/21/16 11:27	1
Isophorone	1.2	U	1.2	0.050	ug/L		12/15/16 10:52	12/21/16 11:27	1
2-Methylphenol	1.2	U	1.2	0.22	ug/L		12/15/16 10:52	12/21/16 11:27	1
Naphthalene	0.24	U	0.24	0.051	ug/L		12/15/16 10:52	12/21/16 11:27	1
2-Nitroaniline	2.4	U	2.4	0.37	ug/L		12/15/16 10:52	12/21/16 11:27	1
3-Nitroaniline	2.4	U *	2.4	0.32	ug/L		12/15/16 10:52	12/21/16 11:27	1
4-Nitroaniline	2.4	U	2.4	0.29	ug/L		12/15/16 10:52	12/21/16 11:27	1
Nitrobenzene	1.2	U	1.2	0.14	ug/L		12/15/16 10:52	12/21/16 11:27	1
2-Nitrophenol	2.4	U	2.4	0.25	ug/L		12/15/16 10:52	12/21/16 11:27	1
4-Nitrophenol	6.0	U	6.0	0.70	ug/L		12/15/16 10:52	12/21/16 11:27	1
N-Nitrosodiphenylamine	1.2	U	1.2	0.13	ug/L		12/15/16 10:52	12/21/16 11:27	1
N-Nitrosodi-n-propylamine	1.2	U	1.2	0.19	ug/L		12/15/16 10:52	12/21/16 11:27	1
2,2'-oxybis(1-chloropropane)	1.2	U	1.2	0.22	ug/L		12/15/16 10:52	12/21/16 11:27	1
Pentachlorophenol	48	U	48	6.5	ug/L		12/15/16 10:52	12/21/16 11:27	1
Phenanthrene	0.24	U	0.24	0.037	ug/L		12/15/16 10:52	12/21/16 11:27	1
Phenol	1.2	U	1.2	0.18	ug/L		12/15/16 10:52	12/21/16 11:27	1
Pyrene	0.24	U	0.24	0.033	ug/L		12/15/16 10:52	12/21/16 11:27	1
2,4,5-Trichlorophenol	6.0	U	6.0	0.44	ug/L		12/15/16 10:52	12/21/16 11:27	1
2,4,6-Trichlorophenol	6.0	U	6.0	0.31	ug/L		12/15/16 10:52	12/21/16 11:27	1
2,6-Dinitrotoluene	6.0	U	6.0	0.28	ug/L		12/15/16 10:52	12/21/16 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*44 - 120*	*12/15/16 10:52*	*12/21/16 11:27*	*1*
2-Fluorophenol (Surr)	*84*		*26 - 120*	*12/15/16 10:52*	*12/21/16 11:27*	*1*
2,4,6-Tribromophenol (Surr)	*54*		*36 - 120*	*12/15/16 10:52*	*12/21/16 11:27*	*1*
Nitrobenzene-d5 (Surr)	*71*		*44 - 120*	*12/15/16 10:52*	*12/21/16 11:27*	*1*
Phenol-d5 (Surr)	*58*		*16 - 120*	*12/15/16 10:52*	*12/21/16 11:27*	*1*
Terphenyl-d14 (Surr)	*80*		*43 - 120*	*12/15/16 10:52*	*12/21/16 11:27*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/12/16 14:00	12/13/16 22:15	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/13/16 22:15	1
Barium	**260**		200	2.4	ug/L		12/12/16 14:00	12/13/16 22:15	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/12/16 14:00	12/13/16 22:15	1
Calcium	**130000**		5000	710	ug/L		12/12/16 14:00	12/13/16 22:15	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/13/16 22:15	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/12/16 14:00	12/13/16 22:15	1
Chromium	**2.0**	**J**	5.0	0.55	ug/L		12/12/16 14:00	12/13/16 22:15	1
Copper	25	U	25	3.9	ug/L		12/12/16 14:00	12/13/16 22:15	1
Iron	**3100**		100	25	ug/L		12/12/16 14:00	12/13/16 22:15	1
Potassium	**1600**	**J B**	5000	70	ug/L		12/12/16 14:00	12/13/16 22:15	1
Magnesium	**43000**		5000	230	ug/L		12/12/16 14:00	12/13/16 22:15	1
Manganese	**280**		15	5.1	ug/L		12/12/16 14:00	12/13/16 22:15	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/13/16 22:15	1
Sodium	**28000**	**B**	5000	330	ug/L		12/12/16 14:00	12/13/16 22:15	1
Nickel	**1.6**	**J**	40	1.6	ug/L		12/12/16 14:00	12/13/16 22:15	1

Client Sample ID: 20161208UAW26-70V72N
Date Collected: 12/08/16 10:00
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-9
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/13/16 22:15	1
Zinc	50	U	50	16	ug/L		12/12/16 14:00	12/13/16 22:15	1
Arsenic	**13**		10	3.3	ug/L		12/12/16 14:00	12/13/16 22:15	1
Lead	**2.5**	**J**	5.0	1.9	ug/L		12/12/16 14:00	12/13/16 22:15	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/13/16 22:15	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/13/16 22:15	1
Tin	100	U	100	1.8	ug/L		12/12/16 14:00	12/13/16 22:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 12:17	1

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161208UAW15-20V19N
Date Collected: 12/08/16 12:50
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/17/16 14:54	1
Benzene	1.0	U	1.0	0.28	ug/L			12/17/16 14:54	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/17/16 14:54	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/17/16 14:54	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/17/16 14:54	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/17/16 14:54	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/17/16 14:54	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/17/16 14:54	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 14:54	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/17/16 14:54	1
Chloroform	**3.4**		1.0	0.31	ug/L			12/17/16 14:54	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/17/16 14:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 14:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/17/16 14:54	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/17/16 14:54	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/17/16 14:54	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/17/16 14:54	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/17/16 14:54	1
1,2-Dichlorobenzene	**0.45**	**J**	1.0	0.26	ug/L			12/17/16 14:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 14:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/17/16 14:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/17/16 14:54	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/17/16 14:54	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/17/16 14:54	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/17/16 14:54	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/17/16 14:54	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/17/16 14:54	1
2-Hexanone	10	U	10	1.2	ug/L			12/17/16 14:54	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/17/16 14:54	1
Methyl acetate	10	U	10	1.4	ug/L			12/17/16 14:54	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/17/16 14:54	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/17/16 14:54	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/17/16 14:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/17/16 14:54	1
Styrene	1.0	U	1.0	0.23	ug/L			12/17/16 14:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/17/16 14:54	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 14:54	1
Toluene	1.0	U	1.0	0.23	ug/L			12/17/16 14:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/17/16 14:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/17/16 14:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/17/16 14:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/17/16 14:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/17/16 14:54	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/17/16 14:54	1
Trichlorofluoromethane	1.0	U *	1.0	0.50	ug/L			12/17/16 14:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/17/16 14:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/17/16 14:54	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/17/16 14:54	1

Client Sample ID: 20161208UAW15-20V19N
Date Collected: 12/08/16 12:50
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*12/17/16 14:54*	*1*
Dibromofluoromethane (Surr)	*116*		*80 - 120*		*12/17/16 14:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 132*		*12/17/16 14:54*	*1*
Toluene-d8 (Surr)	*100*		*73 - 124*		*12/17/16 14:54*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21	U	0.21	0.046	ug/L		12/15/16 10:52	12/21/16 12:41	1
Acenaphthylene	0.21	U	0.21	0.021	ug/L		12/15/16 10:52	12/21/16 12:41	1
Acetophenone	1.0	U	1.0	0.15	ug/L		12/15/16 10:52	12/21/16 12:41	1
Aniline	5.2	U	5.2	0.23	ug/L		12/15/16 10:52	12/21/16 12:41	1
Anthracene	0.21	U	0.21	0.032	ug/L		12/15/16 10:52	12/21/16 12:41	1
Atrazine	2.1	U	2.1	0.12	ug/L		12/15/16 10:52	12/21/16 12:41	1
Benzaldehyde	2.1	U	2.1	0.31	ug/L		12/15/16 10:52	12/21/16 12:41	1
Benzo[a]anthracene	0.21	U	0.21	0.061	ug/L		12/15/16 10:52	12/21/16 12:41	1
Benzo[b]fluoranthene	0.21	U	0.21	0.061	ug/L		12/15/16 10:52	12/21/16 12:41	1
Benzo[k]fluoranthene	0.21	U	0.21	0.050	ug/L		12/15/16 10:52	12/21/16 12:41	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.052	ug/L		12/15/16 10:52	12/21/16 12:41	1
Benzo[a]pyrene	0.21	U	0.21	0.031	ug/L		12/15/16 10:52	12/21/16 12:41	1
Butyl benzyl phthalate	1.0	U	1.0	0.23	ug/L		12/15/16 10:52	12/21/16 12:41	1
1,1'-Biphenyl	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/21/16 12:41	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.039	ug/L		12/15/16 10:52	12/21/16 12:41	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.20	ug/L		12/15/16 10:52	12/21/16 12:41	1
Bis(2-ethylhexyl) phthalate	2.1	U	2.1	1.6	ug/L		12/15/16 10:52	12/21/16 12:41	1
4-Bromophenyl phenyl ether	2.1	U	2.1	0.36	ug/L		12/15/16 10:52	12/21/16 12:41	1
Caprolactam	**5.0**	**J ***	5.2	0.39	ug/L		12/15/16 10:52	12/21/16 12:41	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/21/16 12:41	1
4-Chloroaniline	2.1	U	2.1	0.16	ug/L		12/15/16 10:52	12/21/16 12:41	1
4-Chloro-3-methylphenol	2.1	U	2.1	0.29	ug/L		12/15/16 10:52	12/21/16 12:41	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 12:41	1
2-Chlorophenol	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/21/16 12:41	1
4-Chlorophenyl phenyl ether	2.1	U	2.1	0.31	ug/L		12/15/16 10:52	12/21/16 12:41	1
Chrysene	0.21	U	0.21	0.036	ug/L		12/15/16 10:52	12/21/16 12:41	1
2-Methylnaphthalene	0.21	U	0.21	0.039	ug/L		12/15/16 10:52	12/21/16 12:41	1
3 & 4 Methylphenol	2.1	U	2.1	0.35	ug/L		12/15/16 10:52	12/21/16 12:41	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.042	ug/L		12/15/16 10:52	12/21/16 12:41	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/21/16 12:41	1
3,3'-Dichlorobenzidine	5.2	U	5.2	0.37	ug/L		12/15/16 10:52	12/21/16 12:41	1
2,4-Dichlorophenol	2.1	U	2.1	0.31	ug/L		12/15/16 10:52	12/21/16 12:41	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/21/16 12:41	1
2,4-Dimethylphenol	2.1	U	2.1	0.33	ug/L		12/15/16 10:52	12/21/16 12:41	1
Dimethyl phthalate	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/21/16 12:41	1
4,6-Dinitro-2-methylphenol	5.2	U	5.2	0.55	ug/L		12/15/16 10:52	12/21/16 12:41	1
2,4-Dinitrophenol	42	U	42	6.4	ug/L		12/15/16 10:52	12/21/16 12:41	1
2,4-Dinitrotoluene	5.2	U	5.2	0.27	ug/L		12/15/16 10:52	12/21/16 12:41	1
Di-n-butyl phthalate	1.0	U	1.0	0.41	ug/L		12/15/16 10:52	12/21/16 12:41	1
Di-n-octyl phthalate	1.0	U	1.0	0.38	ug/L		12/15/16 10:52	12/21/16 12:41	1
Fluoranthene	0.21	U	0.21	0.028	ug/L		12/15/16 10:52	12/21/16 12:41	1
Fluorene	0.21	U	0.21	0.035	ug/L		12/15/16 10:52	12/21/16 12:41	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 12:41	1

Client Sample ID: 20161208UAW15-20V19N
Date Collected: 12/08/16 12:50
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-10
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.15	ug/L		12/15/16 10:52	12/21/16 12:41	1
Hexachlorocyclopentadiene	10	U	10	2.6	ug/L		12/15/16 10:52	12/21/16 12:41	1
Hexachloroethane	1.0	U	1.0	0.23	ug/L		12/15/16 10:52	12/21/16 12:41	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.050	ug/L		12/15/16 10:52	12/21/16 12:41	1
Isophorone	1.0	U	1.0	0.044	ug/L		12/15/16 10:52	12/21/16 12:41	1
2-Methylphenol	1.0	U	1.0	0.20	ug/L		12/15/16 10:52	12/21/16 12:41	1
Naphthalene	0.21	U	0.21	0.045	ug/L		12/15/16 10:52	12/21/16 12:41	1
2-Nitroaniline	2.1	U	2.1	0.32	ug/L		12/15/16 10:52	12/21/16 12:41	1
3-Nitroaniline	2.1	U *	2.1	0.28	ug/L		12/15/16 10:52	12/21/16 12:41	1
4-Nitroaniline	2.1	U	2.1	0.25	ug/L		12/15/16 10:52	12/21/16 12:41	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 12:41	1
2-Nitrophenol	2.1	U	2.1	0.22	ug/L		12/15/16 10:52	12/21/16 12:41	1
4-Nitrophenol	5.2	U	5.2	0.61	ug/L		12/15/16 10:52	12/21/16 12:41	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 12:41	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.17	ug/L		12/15/16 10:52	12/21/16 12:41	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.19	ug/L		12/15/16 10:52	12/21/16 12:41	1
Pentachlorophenol	42	U	42	5.7	ug/L		12/15/16 10:52	12/21/16 12:41	1
Phenanthrene	0.21	U	0.21	0.032	ug/L		12/15/16 10:52	12/21/16 12:41	1
Phenol	1.0	U	1.0	0.16	ug/L		12/15/16 10:52	12/21/16 12:41	1
Pyrene	0.21	U	0.21	0.029	ug/L		12/15/16 10:52	12/21/16 12:41	1
2,4,5-Trichlorophenol	5.2	U	5.2	0.38	ug/L		12/15/16 10:52	12/21/16 12:41	1
2,4,6-Trichlorophenol	5.2	U	5.2	0.27	ug/L		12/15/16 10:52	12/21/16 12:41	1
2,6-Dinitrotoluene	5.2	U	5.2	0.24	ug/L		12/15/16 10:52	12/21/16 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*44 - 120*	*12/15/16 10:52*	*12/21/16 12:41*	*1*
2-Fluorophenol (Surr)	*82*		*26 - 120*	*12/15/16 10:52*	*12/21/16 12:41*	*1*
2,4,6-Tribromophenol (Surr)	*54*		*36 - 120*	*12/15/16 10:52*	*12/21/16 12:41*	*1*
Nitrobenzene-d5 (Surr)	*69*		*44 - 120*	*12/15/16 10:52*	*12/21/16 12:41*	*1*
Phenol-d5 (Surr)	*54*		*16 - 120*	*12/15/16 10:52*	*12/21/16 12:41*	*1*
Terphenyl-d14 (Surr)	*82*		*43 - 120*	*12/15/16 10:52*	*12/21/16 12:41*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/12/16 14:00	12/13/16 23:57	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/13/16 23:57	1
Barium	**73**	**J**	200	2.4	ug/L		12/12/16 14:00	12/13/16 23:57	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/12/16 14:00	12/13/16 23:57	1
Calcium	**84000**		5000	710	ug/L		12/12/16 14:00	12/13/16 23:57	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/13/16 23:57	1
Cobalt	**3.2**	**J**	7.0	0.84	ug/L		12/12/16 14:00	12/13/16 23:57	1
Chromium	**130**		5.0	0.55	ug/L		12/12/16 14:00	12/13/16 23:57	1
Copper	**3.9**	**J**	25	3.9	ug/L		12/12/16 14:00	12/13/16 23:57	1
Iron	**1100**		100	25	ug/L		12/12/16 14:00	12/13/16 23:57	1
Potassium	**1900**	**J B**	5000	70	ug/L		12/12/16 14:00	12/13/16 23:57	1
Magnesium	**21000**		5000	230	ug/L		12/12/16 14:00	12/13/16 23:57	1
Manganese	**17**		15	5.1	ug/L		12/12/16 14:00	12/13/16 23:57	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/13/16 23:57	1
Sodium	**340000**	**B**	5000	330	ug/L		12/12/16 14:00	12/13/16 23:57	1
Nickel	**58**		40	1.6	ug/L		12/12/16 14:00	12/13/16 23:57	1

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161208UAW15-20V19N
Date Collected: 12/08/16 12:50
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-10
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/13/16 23:57	1
Zinc	50	U	50	16	ug/L		12/12/16 14:00	12/13/16 23:57	1
Arsenic	10	U	10	3.3	ug/L		12/12/16 14:00	12/13/16 23:57	1
Lead	**2.0**	**J**	5.0	1.9	ug/L		12/12/16 14:00	12/13/16 23:57	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/13/16 23:57	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/13/16 23:57	1
Tin	**59**	**J**	100	1.8	ug/L		12/12/16 14:00	12/13/16 23:57	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 13:02	1

Client Sample ID: 20161208UAW11-10V12N
Date Collected: 12/08/16 14:40
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/17/16 15:16	1
Benzene	**0.45**	**J**	1.0	0.28	ug/L			12/17/16 15:16	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/17/16 15:16	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/17/16 15:16	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/17/16 15:16	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/17/16 15:16	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/17/16 15:16	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/17/16 15:16	1
Chlorobenzene	**3.7**		1.0	0.32	ug/L			12/17/16 15:16	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/17/16 15:16	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/17/16 15:16	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/17/16 15:16	1
cis-1,2-Dichloroethene	**14**		1.0	0.30	ug/L			12/17/16 15:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/17/16 15:16	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/17/16 15:16	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/17/16 15:16	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/17/16 15:16	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/17/16 15:16	1
1,2-Dichlorobenzene	**6.5**		1.0	0.26	ug/L			12/17/16 15:16	1
1,3-Dichlorobenzene	**0.39**	**J**	1.0	0.32	ug/L			12/17/16 15:16	1
1,4-Dichlorobenzene	**2.5**		1.0	0.23	ug/L			12/17/16 15:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/17/16 15:16	1
1,1-Dichloroethane	**5.3**		1.0	0.25	ug/L			12/17/16 15:16	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/17/16 15:16	1
1,1-Dichloroethene	**0.31**	**J**	1.0	0.27	ug/L			12/17/16 15:16	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/17/16 15:16	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/17/16 15:16	1
2-Hexanone	10	U	10	1.2	ug/L			12/17/16 15:16	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/17/16 15:16	1
Methyl acetate	10	U	10	1.4	ug/L			12/17/16 15:16	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/17/16 15:16	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/17/16 15:16	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/17/16 15:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/17/16 15:16	1
Styrene	1.0	U	1.0	0.23	ug/L			12/17/16 15:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/17/16 15:16	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 15:16	1
Toluene	**0.58**	**J**	1.0	0.23	ug/L			12/17/16 15:16	1
trans-1,2-Dichloroethene	**0.47**	**J**	1.0	0.29	ug/L			12/17/16 15:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/17/16 15:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/17/16 15:16	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/17/16 15:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/17/16 15:16	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/17/16 15:16	1
Trichlorofluoromethane	1.0	U *	1.0	0.50	ug/L			12/17/16 15:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/17/16 15:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/17/16 15:16	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/17/16 15:16	1

Client Sample ID: 20161208UAW11-10V12N
Date Collected: 12/08/16 14:40
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-11
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*12/17/16 15:16*	*1*
Dibromofluoromethane (Surr)	*117*		*80 - 120*		*12/17/16 15:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 132*		*12/17/16 15:16*	*1*
Toluene-d8 (Surr)	*98*		*73 - 124*		*12/17/16 15:16*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.25	U	0.25	0.055	ug/L		12/15/16 10:52	12/21/16 13:05	1
Acenaphthylene	0.25	U	0.25	0.025	ug/L		12/15/16 10:52	12/21/16 13:05	1
Acetophenone	1.3	U	1.3	0.18	ug/L		12/15/16 10:52	12/21/16 13:05	1
Aniline	6.3	U	6.3	0.27	ug/L		12/15/16 10:52	12/21/16 13:05	1
Anthracene	0.25	U	0.25	0.039	ug/L		12/15/16 10:52	12/21/16 13:05	1
Atrazine	2.5	U	2.5	0.15	ug/L		12/15/16 10:52	12/21/16 13:05	1
Benzaldehyde	2.5	U	2.5	0.37	ug/L		12/15/16 10:52	12/21/16 13:05	1
Benzo[a]anthracene	0.25	U	0.25	0.074	ug/L		12/15/16 10:52	12/21/16 13:05	1
Benzo[b]fluoranthene	0.25	U	0.25	0.074	ug/L		12/15/16 10:52	12/21/16 13:05	1
Benzo[k]fluoranthene	0.25	U	0.25	0.060	ug/L		12/15/16 10:52	12/21/16 13:05	1
Benzo[g,h,i]perylene	0.25	U	0.25	0.063	ug/L		12/15/16 10:52	12/21/16 13:05	1
Benzo[a]pyrene	0.25	U	0.25	0.038	ug/L		12/15/16 10:52	12/21/16 13:05	1
Butyl benzyl phthalate	1.3	U	1.3	0.27	ug/L		12/15/16 10:52	12/21/16 13:05	1
1,1'-Biphenyl	1.3	U	1.3	0.16	ug/L		12/15/16 10:52	12/21/16 13:05	1
Bis(2-chloroethoxy)methane	1.3	U	1.3	0.046	ug/L		12/15/16 10:52	12/21/16 13:05	1
Bis(2-chloroethyl)ether	1.3	U	1.3	0.24	ug/L		12/15/16 10:52	12/21/16 13:05	1
Bis(2-ethylhexyl) phthalate	2.5	U	2.5	1.9	ug/L		12/15/16 10:52	12/21/16 13:05	1
4-Bromophenyl phenyl ether	2.5	U	2.5	0.43	ug/L		12/15/16 10:52	12/21/16 13:05	1
Caprolactam	**6.9**	*	6.3	0.47	ug/L		12/15/16 10:52	12/21/16 13:05	1
Carbazole	1.3	U	1.3	0.13	ug/L		12/15/16 10:52	12/21/16 13:05	1
4-Chloroaniline	2.5	U	2.5	0.19	ug/L		12/15/16 10:52	12/21/16 13:05	1
4-Chloro-3-methylphenol	2.5	U	2.5	0.35	ug/L		12/15/16 10:52	12/21/16 13:05	1
2-Chloronaphthalene	1.3	U	1.3	0.14	ug/L		12/15/16 10:52	12/21/16 13:05	1
2-Chlorophenol	1.3	U	1.3	0.17	ug/L		12/15/16 10:52	12/21/16 13:05	1
4-Chlorophenyl phenyl ether	2.5	U	2.5	0.37	ug/L		12/15/16 10:52	12/21/16 13:05	1
Chrysene	0.25	U	0.25	0.044	ug/L		12/15/16 10:52	12/21/16 13:05	1
2-Methylnaphthalene	0.25	U	0.25	0.046	ug/L		12/15/16 10:52	12/21/16 13:05	1
3 & 4 Methylphenol	2.5	U	2.5	0.42	ug/L		12/15/16 10:52	12/21/16 13:05	1
Dibenz(a,h)anthracene	0.25	U	0.25	0.050	ug/L		12/15/16 10:52	12/21/16 13:05	1
Dibenzofuran	1.3	U	1.3	0.17	ug/L		12/15/16 10:52	12/21/16 13:05	1
3,3'-Dichlorobenzidine	6.3	U	6.3	0.44	ug/L		12/15/16 10:52	12/21/16 13:05	1
2,4-Dichlorophenol	2.5	U	2.5	0.37	ug/L		12/15/16 10:52	12/21/16 13:05	1
Diethyl phthalate	1.3	U	1.3	0.16	ug/L		12/15/16 10:52	12/21/16 13:05	1
2,4-Dimethylphenol	2.5	U	2.5	0.39	ug/L		12/15/16 10:52	12/21/16 13:05	1
Dimethyl phthalate	1.3	U	1.3	0.13	ug/L		12/15/16 10:52	12/21/16 13:05	1
4,6-Dinitro-2-methylphenol	6.3	U	6.3	0.66	ug/L		12/15/16 10:52	12/21/16 13:05	1
2,4-Dinitrophenol	50	U	50	7.7	ug/L		12/15/16 10:52	12/21/16 13:05	1
2,4-Dinitrotoluene	6.3	U	6.3	0.32	ug/L		12/15/16 10:52	12/21/16 13:05	1
Di-n-butyl phthalate	1.3	U	1.3	0.50	ug/L		12/15/16 10:52	12/21/16 13:05	1
Di-n-octyl phthalate	1.3	U	1.3	0.46	ug/L		12/15/16 10:52	12/21/16 13:05	1
Fluoranthene	0.25	U	0.25	0.034	ug/L		12/15/16 10:52	12/21/16 13:05	1
Fluorene	0.25	U	0.25	0.043	ug/L		12/15/16 10:52	12/21/16 13:05	1
Hexachlorobenzene	1.3	U	1.3	0.14	ug/L		12/15/16 10:52	12/21/16 13:05	1

Client Sample ID: 20161208UAW11-10V12N
Date Collected: 12/08/16 14:40
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-11
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.3	U	1.3	0.18	ug/L		12/15/16 10:52	12/21/16 13:05	1
Hexachlorocyclopentadiene	13	U	13	3.1	ug/L		12/15/16 10:52	12/21/16 13:05	1
Hexachloroethane	1.3	U	1.3	0.27	ug/L		12/15/16 10:52	12/21/16 13:05	1
Indeno[1,2,3-cd]pyrene	0.25	U	0.25	0.060	ug/L		12/15/16 10:52	12/21/16 13:05	1
Isophorone	1.3	U	1.3	0.053	ug/L		12/15/16 10:52	12/21/16 13:05	1
2-Methylphenol	1.3	U	1.3	0.24	ug/L		12/15/16 10:52	12/21/16 13:05	1
Naphthalene	0.25	U	0.25	0.054	ug/L		12/15/16 10:52	12/21/16 13:05	1
2-Nitroaniline	2.5	U	2.5	0.39	ug/L		12/15/16 10:52	12/21/16 13:05	1
3-Nitroaniline	2.5	U *	2.5	0.33	ug/L		12/15/16 10:52	12/21/16 13:05	1
4-Nitroaniline	2.5	U	2.5	0.30	ug/L		12/15/16 10:52	12/21/16 13:05	1
Nitrobenzene	1.3	U	1.3	0.15	ug/L		12/15/16 10:52	12/21/16 13:05	1
2-Nitrophenol	2.5	U	2.5	0.26	ug/L		12/15/16 10:52	12/21/16 13:05	1
4-Nitrophenol	6.3	U	6.3	0.73	ug/L		12/15/16 10:52	12/21/16 13:05	1
N-Nitrosodiphenylamine	1.3	U	1.3	0.14	ug/L		12/15/16 10:52	12/21/16 13:05	1
N-Nitrosodi-n-propylamine	1.3	U	1.3	0.20	ug/L		12/15/16 10:52	12/21/16 13:05	1
2,2'-oxybis(1-chloropropane)	1.3	U	1.3	0.23	ug/L		12/15/16 10:52	12/21/16 13:05	1
Pentachlorophenol	50	U	50	6.8	ug/L		12/15/16 10:52	12/21/16 13:05	1
Phenanthrene	0.25	U	0.25	0.039	ug/L		12/15/16 10:52	12/21/16 13:05	1
Phenol	1.3	U	1.3	0.19	ug/L		12/15/16 10:52	12/21/16 13:05	1
Pyrene	0.25	U	0.25	0.035	ug/L		12/15/16 10:52	12/21/16 13:05	1
2,4,5-Trichlorophenol	6.3	U	6.3	0.46	ug/L		12/15/16 10:52	12/21/16 13:05	1
2,4,6-Trichlorophenol	6.3	U	6.3	0.33	ug/L		12/15/16 10:52	12/21/16 13:05	1
2,6-Dinitrotoluene	6.3	U	6.3	0.29	ug/L		12/15/16 10:52	12/21/16 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*44 - 120*	*12/15/16 10:52*	*12/21/16 13:05*	*1*
2-Fluorophenol (Surr)	*64*		*26 - 120*	*12/15/16 10:52*	*12/21/16 13:05*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*36 - 120*	*12/15/16 10:52*	*12/21/16 13:05*	*1*
Nitrobenzene-d5 (Surr)	*72*		*44 - 120*	*12/15/16 10:52*	*12/21/16 13:05*	*1*
Phenol-d5 (Surr)	*56*		*16 - 120*	*12/15/16 10:52*	*12/21/16 13:05*	*1*
Terphenyl-d14 (Surr)	*79*		*43 - 120*	*12/15/16 10:52*	*12/21/16 13:05*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**81**	**J**	200	40	ug/L		12/12/16 14:00	12/14/16 00:02	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/14/16 00:02	1
Barium	**140**	**J**	200	2.4	ug/L		12/12/16 14:00	12/14/16 00:02	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/12/16 14:00	12/14/16 00:02	1
Calcium	**140000**		5000	710	ug/L		12/12/16 14:00	12/14/16 00:02	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/14/16 00:02	1
Cobalt	**0.84**	**J**	7.0	0.84	ug/L		12/12/16 14:00	12/14/16 00:02	1
Chromium	**2.7**	**J**	5.0	0.55	ug/L		12/12/16 14:00	12/14/16 00:02	1
Copper	25	U	25	3.9	ug/L		12/12/16 14:00	12/14/16 00:02	1
Iron	**4300**		100	25	ug/L		12/12/16 14:00	12/14/16 00:02	1
Potassium	**4200**	**J B**	5000	70	ug/L		12/12/16 14:00	12/14/16 00:02	1
Magnesium	**28000**		5000	230	ug/L		12/12/16 14:00	12/14/16 00:02	1
Manganese	**2400**		15	5.1	ug/L		12/12/16 14:00	12/14/16 00:02	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/14/16 00:02	1
Sodium	**460000**	**B**	5000	330	ug/L		12/12/16 14:00	12/14/16 00:02	1
Nickel	**9.1**	**J**	40	1.6	ug/L		12/12/16 14:00	12/14/16 00:02	1

Client Sample ID: 20161208UAW11-10V12N
Date Collected: 12/08/16 14:40
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-11
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/14/16 00:02	1
Zinc	50	U	50	16	ug/L		12/12/16 14:00	12/14/16 00:02	1
Arsenic	**13**		10	3.3	ug/L		12/12/16 14:00	12/14/16 00:02	1
Lead	**2.2**	**J**	5.0	1.9	ug/L		12/12/16 14:00	12/14/16 00:02	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/14/16 00:02	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/14/16 00:02	1
Tin	**520**		100	1.8	ug/L		12/12/16 14:00	12/14/16 00:02	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 13:04	1

Client Sample ID: TRIP BLANK

Date Collected: 12/08/16 00:00
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/17/16 15:39	1
Benzene	1.0	U	1.0	0.28	ug/L			12/17/16 15:39	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/17/16 15:39	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/17/16 15:39	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/17/16 15:39	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/17/16 15:39	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/17/16 15:39	1
Carbon tetrachloride	1.0	U *	1.0	0.35	ug/L			12/17/16 15:39	1
Chlorobenzene	**0.63**	**J**	1.0	0.32	ug/L			12/17/16 15:39	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/17/16 15:39	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/17/16 15:39	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/17/16 15:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 15:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/17/16 15:39	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/17/16 15:39	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/17/16 15:39	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/17/16 15:39	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/17/16 15:39	1
1,2-Dichlorobenzene	**1.7**		1.0	0.26	ug/L			12/17/16 15:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 15:39	1
1,4-Dichlorobenzene	**0.66**	**J**	1.0	0.23	ug/L			12/17/16 15:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/17/16 15:39	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/17/16 15:39	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/17/16 15:39	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/17/16 15:39	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/17/16 15:39	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/17/16 15:39	1
2-Hexanone	10	U	10	1.2	ug/L			12/17/16 15:39	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/17/16 15:39	1
Methyl acetate	10	U	10	1.4	ug/L			12/17/16 15:39	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/17/16 15:39	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/17/16 15:39	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/17/16 15:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/17/16 15:39	1
Styrene	1.0	U	1.0	0.23	ug/L			12/17/16 15:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/17/16 15:39	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 15:39	1
Toluene	1.0	U	1.0	0.23	ug/L			12/17/16 15:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/17/16 15:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/17/16 15:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/17/16 15:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/17/16 15:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/17/16 15:39	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/17/16 15:39	1
Trichlorofluoromethane	1.0	U *	1.0	0.50	ug/L			12/17/16 15:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/17/16 15:39	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/17/16 15:39	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/17/16 15:39	1

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: TRIP BLANK
Date Collected: 12/08/16 00:00
Date Received: 12/09/16 08:00

Lab Sample ID: 240-73120-12
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		73 - 120		12/17/16 15:39	1
Dibromofluoromethane (Surr)	117		80 - 120		12/17/16 15:39	1
1,2-Dichloroethane-d4 (Surr)	107		63 - 132		12/17/16 15:39	1
Toluene-d8 (Surr)	96		73 - 124		12/17/16 15:39	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(73-120)	(80-120)	(63-132)	(73-124)
240-73120-1	20161207UAW02-20V15N	101	111	105	96
240-73120-2	20161207UAW04-20V16N	97	115	105	99
240-73120-3	20161208MW-EPA-4V19N	91	113	105	100
240-73120-4	20161208UAW15-50V42N	102	115	107	99
240-73120-5	20161208UAW11-40V39N	96	116	108	98
240-73120-6	20161207UAW02-40V41N	92	116	105	99
240-73120-7	20161207UAW02-40V41FD	93	114	105	97
240-73120-8	20161207UAW03-20V15N	100	113	108	98
240-73120-9	20161208UAW26-70V72N	95	117	107	97
240-73120-9 MS	20161208UAW26-70V72N	104	113	97	106
240-73120-9 MSD	20161208UAW26-70V72N	118	111	99	100
240-73120-10	20161208UAW15-20V19N	93	116	108	100
240-73120-11	20161208UAW11-10V12N	99	117	108	98
240-73120-12	TRIP BLANK	99	117	107	96
LCS 240-259893/4	Lab Control Sample	107	112	100	103
MB 240-259893/7	Method Blank	93	111	103	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(44-120)	(26-120)	(36-120)	(44-120)	(16-120)	(43-120)
240-73120-1	20161207UAW02-20V15N	71	82	79	70	52	80
240-73120-2	20161207UAW04-20V16N	73	79	85	73	51	84
240-73120-3	20161208MW-EPA-4V19N	66	70	60	72	58	79
240-73120-4	20161208UAW15-50V42N	68	76	72	74	62	85
240-73120-5	20161208UAW11-40V39N	67	86	66	72	64	83
240-73120-6	20161207UAW02-40V41N	71	84	72	68	57	77
240-73120-7	20161207UAW02-40V41FD	70	82	67	67	58	78
240-73120-8	20161207UAW03-20V15N	72	98	84	69	63	79
240-73120-9	20161208UAW26-70V72N	67	84	54	71	58	80
240-73120-9 MS	20161208UAW26-70V72N	74	93	75	80	69	85
240-73120-9 MSD	20161208UAW26-70V72N	81	103	81	91	78	92
240-73120-10	20161208UAW15-20V19N	66	82	54	69	54	82
240-73120-11	20161208UAW11-10V12N	67	64	66	72	56	79
LCS 240-259058/6-A	Lab Control Sample	77	75	93	77	46	88
LCS 240-259604/18-A	Lab Control Sample	83	92	79	89	56	91
LCSD 240-259058/12-A	Lab Control Sample Dup	89	93	103	86	57	100
LCSD 240-259604/19-A	Lab Control Sample Dup	88	112	86	92	75	97
MB 240-259058/5-A	Method Blank	60	48	61	62	19	74
MB 240-259604/17-A	Method Blank	67	87	49	67	64	78

Surrogate Legend

Surrogate Summary

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-259893/7
Matrix: Water
Analysis Batch: 259893

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/17/16 10:01	1
Benzene	1.0	U	1.0	0.28	ug/L			12/17/16 10:01	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/17/16 10:01	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/17/16 10:01	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/17/16 10:01	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/17/16 10:01	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/17/16 10:01	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/17/16 10:01	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 10:01	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/17/16 10:01	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/17/16 10:01	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/17/16 10:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 10:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/17/16 10:01	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/17/16 10:01	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/17/16 10:01	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/17/16 10:01	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/17/16 10:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/17/16 10:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/17/16 10:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/17/16 10:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/17/16 10:01	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/17/16 10:01	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/17/16 10:01	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/17/16 10:01	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/17/16 10:01	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/17/16 10:01	1
2-Hexanone	10	U	10	1.2	ug/L			12/17/16 10:01	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/17/16 10:01	1
Methyl acetate	10	U	10	1.4	ug/L			12/17/16 10:01	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/17/16 10:01	1
Methylene Chloride	0.638	J	1.0	0.53	ug/L			12/17/16 10:01	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/17/16 10:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/17/16 10:01	1
Styrene	1.0	U	1.0	0.23	ug/L			12/17/16 10:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/17/16 10:01	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/17/16 10:01	1
Toluene	1.0	U	1.0	0.23	ug/L			12/17/16 10:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/17/16 10:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/17/16 10:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/17/16 10:01	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/17/16 10:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/17/16 10:01	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/17/16 10:01	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/17/16 10:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/17/16 10:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/17/16 10:01	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/17/16 10:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*12/17/16 10:01*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*12/17/16 10:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 132*		*12/17/16 10:01*	*1*
Toluene-d8 (Surr)	*100*		*73 - 124*		*12/17/16 10:01*	*1*

Lab Sample ID: LCS 240-259893/4
Matrix: Water
Analysis Batch: 259893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	15.6		ug/L		78	46 - 120
Benzene	10.0	10.5		ug/L		105	80 - 120
Bromodichloromethane	10.0	10.9		ug/L		109	76 - 125
Bromoform	10.0	10.5		ug/L		105	52 - 157
Bromomethane	10.0	6.12		ug/L		61	24 - 160
2-Butanone (MEK)	20.0	16.4		ug/L		82	54 - 122
Carbon disulfide	10.0	11.4		ug/L		114	58 - 160
Carbon tetrachloride	10.0	15.3	*	ug/L		153	69 - 149
Chlorobenzene	10.0	10.4		ug/L		104	80 - 120
Chloroethane	10.0	4.64		ug/L		46	24 - 147
Chloroform	10.0	11.0		ug/L		110	80 - 120
Chloromethane	10.0	9.11		ug/L		91	50 - 135
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	80 - 120
cis-1,3-Dichloropropene	10.0	9.90		ug/L		99	75 - 120
Cyclohexane	10.0	11.2		ug/L		112	66 - 135
1,2-Dibromo-3-Chloropropane	10.0	9.86		ug/L		99	46 - 140
1,2-Dibromoethane	10.0	10.4		ug/L		104	80 - 126
1,2-Dichlorobenzene	10.0	9.67		ug/L		97	80 - 120
1,3-Dichlorobenzene	10.0	9.59		ug/L		96	80 - 120
1,4-Dichlorobenzene	10.0	9.73		ug/L		97	80 - 120
Dichlorodifluoromethane	10.0	13.1		ug/L		131	32 - 140
1,1-Dichloroethane	10.0	10.3		ug/L		103	77 - 121
1,2-Dichloroethane	10.0	9.91		ug/L		99	76 - 130
1,1-Dichloroethene	10.0	11.1		ug/L		111	70 - 141
1,2-Dichloropropane	10.0	10.5		ug/L		105	79 - 121
Ethylbenzene	10.0	10.4		ug/L		104	80 - 120
2-Hexanone	20.0	18.4		ug/L		92	56 - 124
Isopropylbenzene	10.0	10.7		ug/L		107	80 - 120
Methyl acetate	50.0	49.9		ug/L		100	65 - 124
Methylcyclohexane	10.0	11.2		ug/L		112	71 - 122
Methylene Chloride	10.0	11.8		ug/L		118	68 - 136
4-Methyl-2-pentanone (MIBK)	20.0	19.9		ug/L		99	60 - 131
Methyl tert-butyl ether	10.0	11.1		ug/L		111	75 - 126
Styrene	10.0	10.7		ug/L		107	80 - 120
1,1,2,2-Tetrachloroethane	10.0	9.16		ug/L		92	61 - 130
Tetrachloroethene	10.0	11.3		ug/L		113	80 - 123
Toluene	10.0	10.1		ug/L		101	80 - 121
trans-1,2-Dichloroethene	10.0	11.3		ug/L		113	80 - 123
trans-1,3-Dichloropropene	10.0	8.95		ug/L		90	65 - 120
1,2,4-Trichlorobenzene	10.0	7.92		ug/L		79	53 - 137
1,1,1-Trichloroethane	10.0	13.1		ug/L		131	79 - 133
1,1,2-Trichloroethane	10.0	9.99		ug/L		100	80 - 120
Trichloroethene	10.0	11.5		ug/L		115	80 - 122
Trichlorofluoromethane	10.0	17.0	*	ug/L		170	56 - 161

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-259893/4
Matrix: Water
Analysis Batch: 259893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.9		ug/L		129	65 - 151
Vinyl chloride	10.0	9.45		ug/L		95	60 - 129
Xylenes, Total	20.0	20.3		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*
Dibromofluoromethane (Surr)	*112*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 132*
Toluene-d8 (Surr)	*103*		*73 - 124*

Lab Sample ID: 240-73120-9 MS
Matrix: Water
Analysis Batch: 259893

Client Sample ID: 20161208UAW26-70V72N
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10	U F2	20.0	9.82	J	ug/L		49	28 - 120
Benzene	1.0	U	10.0	10.5		ug/L		105	67 - 126
Bromodichloromethane	1.0	U	10.0	10.5		ug/L		105	64 - 127
Bromoform	1.0	U	10.0	9.48		ug/L		95	40 - 149
Bromomethane	1.0	U	10.0	5.94		ug/L		59	10 - 169
2-Butanone (MEK)	10	U	20.0	15.0		ug/L		75	38 - 123
Carbon disulfide	1.0	U	10.0	11.3		ug/L		113	43 - 172
Carbon tetrachloride	1.0	U F1 *	10.0	15.0		ug/L		150	51 - 154
Chlorobenzene	0.59	J	10.0	9.93		ug/L		93	58 - 128
Chloroethane	1.0	U F2	10.0	4.53		ug/L		45	10 - 162
Chloroform	1.0	U	10.0	10.7		ug/L		107	67 - 133
Chloromethane	1.0	U	10.0	9.04		ug/L		90	30 - 143
cis-1,2-Dichloroethene	1.0	U	10.0	10.6		ug/L		106	64 - 134
cis-1,3-Dichloropropene	1.0	U	10.0	9.31		ug/L		93	58 - 120
Cyclohexane	1.0	U	10.0	10.6		ug/L		106	36 - 144
1,2-Dibromo-3-Chloropropane	2.0	U F2	10.0	7.27		ug/L		73	37 - 139
1,2-Dibromoethane	1.0	U	10.0	10.2		ug/L		102	64 - 137
1,2-Dichlorobenzene	1.9	F1	10.0	7.92	F1	ug/L		60	62 - 123
1,3-Dichlorobenzene	1.0	U	10.0	7.95		ug/L		79	59 - 122
1,4-Dichlorobenzene	0.38	J	10.0	8.07		ug/L		77	60 - 122
Dichlorodifluoromethane	1.0	U F2	10.0	8.57		ug/L		86	16 - 140
1,1-Dichloroethane	1.0	U	10.0	10.1		ug/L		101	57 - 135
1,2-Dichloroethane	1.0	U	10.0	9.70		ug/L		97	62 - 137
1,1-Dichloroethene	1.0	U	10.0	11.2		ug/L		112	50 - 156
1,2-Dichloropropane	1.0	U	10.0	10.4		ug/L		104	66 - 130
Ethylbenzene	1.0	U	10.0	9.68		ug/L		97	66 - 123
2-Hexanone	10	U	20.0	17.2		ug/L		86	41 - 135
Isopropylbenzene	1.0	U	10.0	9.29		ug/L		93	57 - 132
Methyl acetate	10	U	50.0	44.5		ug/L		89	46 - 135
Methylcyclohexane	1.0	U	10.0	10.4		ug/L		104	31 - 139
Methylene Chloride	1.0	U	10.0	10.4		ug/L		104	48 - 138
4-Methyl-2-pentanone (MIBK)	10	U	20.0	17.6		ug/L		88	43 - 143

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-73120-9 MS
Matrix: Water
Analysis Batch: 259893

Client Sample ID: 20161208UAW26-70V72N
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	1.0	U	10.0	10.5		ug/L		105	50 - 137
Styrene	1.0	U	10.0	9.77		ug/L		98	62 - 131
1,1,2,2-Tetrachloroethane	1.0	U	10.0	8.02		ug/L		80	48 - 134
Tetrachloroethene	1.0	U	10.0	11.1		ug/L		111	54 - 138
Toluene	1.0	U	10.0	10.3		ug/L		103	63 - 130
trans-1,2-Dichloroethene	1.0	U	10.0	11.4		ug/L		114	70 - 137
trans-1,3-Dichloropropene	1.0	U	10.0	8.76		ug/L		88	48 - 120
1,2,4-Trichlorobenzene	1.0	U F2	10.0	7.47		ug/L		75	35 - 140
1,1,1-Trichloroethane	1.0	U	10.0	12.9		ug/L		129	55 - 150
1,1,2-Trichloroethane	1.0	U	10.0	9.85		ug/L		99	65 - 130
Trichloroethene	1.0	U	10.0	11.3		ug/L		113	58 - 139
Trichlorofluoromethane	1.0	U *	10.0	12.6		ug/L		126	26 - 175
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	12.8		ug/L		128	41 - 149
Vinyl chloride	1.0	U	10.0	8.51		ug/L		85	38 - 147
Xylenes, Total	2.0	U	20.0	18.7		ug/L		93	60 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*113*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 132*
Toluene-d8 (Surr)	*106*		*73 - 124*

Lab Sample ID: 240-73120-9 MSD
Matrix: Water
Analysis Batch: 259893

Client Sample ID: 20161208UAW26-70V72N
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10	U F2	20.0	15.5	F2	ug/L		77	28 - 120	45	35
Benzene	1.0	U	10.0	11.3		ug/L		113	67 - 126	8	31
Bromodichloromethane	1.0	U	10.0	11.3		ug/L		113	64 - 127	8	35
Bromoform	1.0	U	10.0	11.4		ug/L		114	40 - 149	19	35
Bromomethane	1.0	U	10.0	4.85		ug/L		48	10 - 169	20	35
2-Butanone (MEK)	10	U	20.0	19.1		ug/L		95	38 - 123	24	35
Carbon disulfide	1.0	U	10.0	11.5		ug/L		115	43 - 172	2	35
Carbon tetrachloride	1.0	U F1 *	10.0	15.6	F1	ug/L		156	51 - 154	4	35
Chlorobenzene	0.59	J	10.0	10.8		ug/L		102	58 - 128	8	35
Chloroethane	1.0	U F2	10.0	3.17	F2	ug/L		32	10 - 162	36	35
Chloroform	1.0	U	10.0	11.4		ug/L		114	67 - 133	6	35
Chloromethane	1.0	U	10.0	7.99		ug/L		80	30 - 143	12	35
cis-1,2-Dichloroethene	1.0	U	10.0	11.5		ug/L		115	64 - 134	8	35
cis-1,3-Dichloropropene	1.0	U	10.0	10.4		ug/L		104	58 - 120	11	35
Cyclohexane	1.0	U	10.0	11.6		ug/L		116	36 - 144	9	35
1,2-Dibromo-3-Chloropropane	2.0	U F2	10.0	11.6	F2	ug/L		116	37 - 139	46	35
1,2-Dibromoethane	1.0	U	10.0	10.9		ug/L		109	64 - 137	6	35
1,2-Dichlorobenzene	1.9	F1	10.0	10.5		ug/L		85	62 - 123	28	35
1,3-Dichlorobenzene	1.0	U	10.0	9.79		ug/L		98	59 - 122	21	35
1,4-Dichlorobenzene	0.38	J	10.0	9.80		ug/L		94	60 - 122	19	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-73120-9 MSD
Matrix: Water
Analysis Batch: 259893

Client Sample ID: 20161208UAW26-70V72N
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	1.0	U F2	10.0	12.5	F2	ug/L		125	16 - 140	38	35
1,1-Dichloroethane	1.0	U	10.0	10.5		ug/L		105	57 - 135	5	35
1,2-Dichloroethane	1.0	U	10.0	10.7		ug/L		107	62 - 137	10	35
1,1-Dichloroethene	1.0	U	10.0	11.3		ug/L		113	50 - 156	2	35
1,2-Dichloropropane	1.0	U	10.0	11.3		ug/L		113	66 - 130	9	35
Ethylbenzene	1.0	U	10.0	11.2		ug/L		112	66 - 123	15	34
2-Hexanone	10	U	20.0	19.5		ug/L		98	41 - 135	12	35
Isopropylbenzene	1.0	U	10.0	12.8		ug/L		128	57 - 132	32	35
Methyl acetate	10	U	50.0	54.0		ug/L		108	46 - 135	19	34
Methylcyclohexane	1.0	U	10.0	11.7		ug/L		117	31 - 139	12	35
Methylene Chloride	1.0	U	10.0	11.0		ug/L		110	48 - 138	6	35
4-Methyl-2-pentanone (MIBK)	10	U	20.0	22.4		ug/L		112	43 - 143	24	35
Methyl tert-butyl ether	1.0	U	10.0	11.6		ug/L		116	50 - 137	10	35
Styrene	1.0	U	10.0	11.7		ug/L		117	62 - 131	18	35
1,1,2,2-Tetrachloroethane	1.0	U	10.0	7.40		ug/L		74	48 - 134	8	35
Tetrachloroethene	1.0	U	10.0	11.5		ug/L		115	54 - 138	3	35
Toluene	1.0	U	10.0	10.4		ug/L		104	63 - 130	2	33
trans-1,2-Dichloroethene	1.0	U	10.0	11.8		ug/L		118	70 - 137	3	25
trans-1,3-Dichloropropene	1.0	U	10.0	8.81		ug/L		88	48 - 120	1	35
1,2,4-Trichlorobenzene	1.0	U F2	10.0	12.5	F2	ug/L		125	35 - 140	50	35
1,1,1-Trichloroethane	1.0	U	10.0	13.4		ug/L		134	55 - 150	4	35
1,1,2-Trichloroethane	1.0	U	10.0	10.2		ug/L		102	65 - 130	3	35
Trichloroethene	1.0	U	10.0	12.3		ug/L		123	58 - 139	9	35
Trichlorofluoromethane	1.0	U *	10.0	15.7		ug/L		157	26 - 175	22	35
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	10.0	14.0		ug/L		140	41 - 149	9	35
Vinyl chloride	1.0	U	10.0	9.09		ug/L		91	38 - 147	7	35
Xylenes, Total	2.0	U	20.0	22.7		ug/L		114	60 - 126	19	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*73 - 120*
Dibromofluoromethane (Surr)	*111*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 132*
Toluene-d8 (Surr)	*100*		*73 - 124*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-259058/5-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259058

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/12/16 10:39	12/14/16 10:22	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/12/16 10:39	12/14/16 10:22	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/12/16 10:39	12/14/16 10:22	1
Aniline	5.0	U	5.0	0.22	ug/L		12/12/16 10:39	12/14/16 10:22	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/12/16 10:39	12/14/16 10:22	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/12/16 10:39	12/14/16 10:22	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-259058/5-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259058

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/12/16 10:39	12/14/16 10:22	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/12/16 10:39	12/14/16 10:22	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/12/16 10:39	12/14/16 10:22	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/12/16 10:39	12/14/16 10:22	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/12/16 10:39	12/14/16 10:22	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/12/16 10:39	12/14/16 10:22	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/12/16 10:39	12/14/16 10:22	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/12/16 10:39	12/14/16 10:22	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/12/16 10:39	12/14/16 10:22	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/12/16 10:39	12/14/16 10:22	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/12/16 10:39	12/14/16 10:22	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/12/16 10:39	12/14/16 10:22	1
Caprolactam	0.984	J	5.0	0.37	ug/L		12/12/16 10:39	12/14/16 10:22	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/12/16 10:39	12/14/16 10:22	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/12/16 10:39	12/14/16 10:22	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/12/16 10:39	12/14/16 10:22	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/12/16 10:39	12/14/16 10:22	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/12/16 10:39	12/14/16 10:22	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/12/16 10:39	12/14/16 10:22	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/12/16 10:39	12/14/16 10:22	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/12/16 10:39	12/14/16 10:22	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/12/16 10:39	12/14/16 10:22	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/12/16 10:39	12/14/16 10:22	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/12/16 10:39	12/14/16 10:22	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/12/16 10:39	12/14/16 10:22	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/12/16 10:39	12/14/16 10:22	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/12/16 10:39	12/14/16 10:22	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/12/16 10:39	12/14/16 10:22	1
Di-n-butyl phthalate	0.506	J	1.0	0.40	ug/L		12/12/16 10:39	12/14/16 10:22	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/12/16 10:39	12/14/16 10:22	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/12/16 10:39	12/14/16 10:22	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/12/16 10:39	12/14/16 10:22	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/12/16 10:39	12/14/16 10:22	1
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/12/16 10:39	12/14/16 10:22	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/12/16 10:39	12/14/16 10:22	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/12/16 10:39	12/14/16 10:22	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/12/16 10:39	12/14/16 10:22	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/12/16 10:39	12/14/16 10:22	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/12/16 10:39	12/14/16 10:22	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/12/16 10:39	12/14/16 10:22	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/12/16 10:39	12/14/16 10:22	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/12/16 10:39	12/14/16 10:22	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/12/16 10:39	12/14/16 10:22	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/12/16 10:39	12/14/16 10:22	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-259058/5-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259058

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/12/16 10:39	12/14/16 10:22	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/12/16 10:39	12/14/16 10:22	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/12/16 10:39	12/14/16 10:22	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/12/16 10:39	12/14/16 10:22	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/12/16 10:39	12/14/16 10:22	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/12/16 10:39	12/14/16 10:22	1
Phenol	1.0	U	1.0	0.15	ug/L		12/12/16 10:39	12/14/16 10:22	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/12/16 10:39	12/14/16 10:22	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/12/16 10:39	12/14/16 10:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*44 - 120*	*12/12/16 10:39*	*12/14/16 10:22*	*1*
2-Fluorophenol (Surr)	*48*		*26 - 120*	*12/12/16 10:39*	*12/14/16 10:22*	*1*
2,4,6-Tribromophenol (Surr)	*61*		*36 - 120*	*12/12/16 10:39*	*12/14/16 10:22*	*1*
Nitrobenzene-d5 (Surr)	*62*		*44 - 120*	*12/12/16 10:39*	*12/14/16 10:22*	*1*
Phenol-d5 (Surr)	*19*		*16 - 120*	*12/12/16 10:39*	*12/14/16 10:22*	*1*
Terphenyl-d14 (Surr)	*74*		*43 - 120*	*12/12/16 10:39*	*12/14/16 10:22*	*1*

Lab Sample ID: LCS 240-259058/6-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259058

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	23.0		ug/L		72	58 - 120
Acenaphthylene	32.0	23.3		ug/L		73	59 - 120
Acetophenone	32.0	23.3		ug/L		73	62 - 120
Aniline	32.0	23.7		ug/L		74	10 - 120
Anthracene	32.0	24.6		ug/L		77	58 - 120
Atrazine	32.0	31.4		ug/L		98	61 - 120
Benzaldehyde	32.0	24.4		ug/L		76	10 - 120
Benzo[a]anthracene	32.0	25.6		ug/L		80	58 - 120
Benzo[b]fluoranthene	32.0	29.0		ug/L		91	59 - 120
Benzo[k]fluoranthene	32.0	29.5		ug/L		92	61 - 120
Benzo[g,h,i]perylene	32.0	33.7		ug/L		105	41 - 127
Benzo[a]pyrene	32.0	31.8		ug/L		99	63 - 120
Butyl benzyl phthalate	32.0	24.4		ug/L		76	60 - 120
1,1'-Biphenyl	32.0	22.2		ug/L		69	53 - 120
Bis(2-chloroethoxy)methane	32.0	22.6		ug/L		71	63 - 120
Bis(2-chloroethyl)ether	32.0	21.0		ug/L		66	57 - 120
Bis(2-ethylhexyl) phthalate	32.0	25.4		ug/L		79	62 - 120
4-Bromophenyl phenyl ether	32.0	26.0		ug/L		81	55 - 120
Caprolactam	32.0	16.9		ug/L		53	10 - 120
Carbazole	32.0	27.7		ug/L		86	59 - 120
4-Chloroaniline	32.0	30.7		ug/L		96	10 - 120
4-Chloro-3-methylphenol	32.0	24.5		ug/L		76	59 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-259058/6-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259058

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	32.0	22.7		ug/L		71	56 - 120
2-Chlorophenol	32.0	24.5		ug/L		76	62 - 120
4-Chlorophenyl phenyl ether	32.0	26.5		ug/L		83	57 - 120
Chrysene	32.0	25.1		ug/L		78	59 - 120
2-Methylnaphthalene	32.0	22.1		ug/L		69	57 - 120
3 & 4 Methylphenol	32.0	22.4		ug/L		70	53 - 120
Dibenz(a,h)anthracene	32.0	34.0		ug/L		106	39 - 125
Dibenzofuran	32.0	24.2		ug/L		76	58 - 120
3,3'-Dichlorobenzidine	64.0	47.7		ug/L		74	10 - 120
2,4-Dichlorophenol	32.0	27.1		ug/L		85	63 - 120
Diethyl phthalate	32.0	25.5		ug/L		80	64 - 120
2,4-Dimethylphenol	32.0	23.6		ug/L		74	41 - 120
Dimethyl phthalate	32.0	26.3		ug/L		82	63 - 120
4,6-Dinitro-2-methylphenol	64.0	48.7		ug/L		76	40 - 120
2,4-Dinitrophenol	64.0	39.7	J	ug/L		62	20 - 120
2,4-Dinitrotoluene	32.0	26.7		ug/L		84	62 - 120
Di-n-butyl phthalate	32.0	25.0		ug/L		78	58 - 120
Di-n-octyl phthalate	32.0	25.0		ug/L		78	58 - 128
Fluoranthene	32.0	27.9		ug/L		87	59 - 120
Fluorene	32.0	24.6		ug/L		77	57 - 120
Hexachlorobenzene	32.0	25.6		ug/L		80	48 - 120
Hexachlorobutadiene	32.0	22.7		ug/L		71	47 - 120
Hexachlorocyclopentadiene	32.0	15.3		ug/L		48	24 - 120
Hexachloroethane	32.0	18.9		ug/L		59	48 - 120
Indeno[1,2,3-cd]pyrene	32.0	34.8		ug/L		109	49 - 121
Isophorone	32.0	22.0		ug/L		69	66 - 120
2-Methylphenol	32.0	23.7		ug/L		74	55 - 120
Naphthalene	32.0	22.1		ug/L		69	58 - 120
2-Nitroaniline	32.0	25.0		ug/L		78	62 - 120
3-Nitroaniline	32.0	51.5	E	ug/L		161	10 - 171
4-Nitroaniline	32.0	33.9		ug/L		106	32 - 132
Nitrobenzene	32.0	23.5		ug/L		74	63 - 120
2-Nitrophenol	32.0	27.0		ug/L		84	65 - 120
4-Nitrophenol	64.0	28.9		ug/L		45	18 - 120
N-Nitrosodiphenylamine	32.0	24.0		ug/L		75	54 - 120
N-Nitrosodi-n-propylamine	32.0	22.0		ug/L		69	63 - 120
2,2'-oxybis(1-chloropropane)	32.0	19.7		ug/L		62	61 - 120
Pentachlorophenol	64.0	36.8	J	ug/L		57	33 - 120
Phenanthrene	32.0	23.6		ug/L		74	57 - 120
Phenol	32.0	13.8		ug/L		43	21 - 120
Pyrene	32.0	24.4		ug/L		76	57 - 120
2,4,5-Trichlorophenol	32.0	25.0		ug/L		78	61 - 120
2,4,6-Trichlorophenol	32.0	26.8		ug/L		84	57 - 120
2,6-Dinitrotoluene	32.0	28.3		ug/L		89	63 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*44 - 120*
2-Fluorophenol (Surr)	*75*		*26 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-259058/6-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259058

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*36 - 120*
Nitrobenzene-d5 (Surr)	*77*		*44 - 120*
Phenol-d5 (Surr)	*46*		*16 - 120*
Terphenyl-d14 (Surr)	*88*		*43 - 120*

Lab Sample ID: LCSD 240-259058/12-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259058

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			32.0	25.6		ug/L		80	58 - 120	10	35
Acenaphthylene			32.0	25.5		ug/L		80	59 - 120	9	35
Acetophenone			32.0	25.9		ug/L		81	62 - 120	11	35
Aniline			32.0	25.3		ug/L		79	10 - 120	7	35
Anthracene			32.0	27.7		ug/L		86	58 - 120	12	35
Atrazine			32.0	33.9		ug/L		106	61 - 120	7	35
Benzaldehyde			32.0	20.3		ug/L		64	10 - 120	18	35
Benzo[a]anthracene			32.0	27.8		ug/L		87	58 - 120	8	35
Benzo[b]fluoranthene			32.0	32.9		ug/L		103	59 - 120	12	35
Benzo[k]fluoranthene			32.0	32.7		ug/L		102	61 - 120	10	35
Benzo[g,h,i]perylene			32.0	35.2		ug/L		110	41 - 127	4	35
Benzo[a]pyrene			32.0	35.4		ug/L		111	63 - 120	11	35
Butyl benzyl phthalate			32.0	26.4		ug/L		83	60 - 120	8	35
1,1'-Biphenyl			32.0	25.0		ug/L		78	53 - 120	12	35
Bis(2-chloroethoxy)methane			32.0	24.7		ug/L		77	63 - 120	9	35
Bis(2-chloroethyl)ether			32.0	25.6		ug/L		80	57 - 120	20	35
Bis(2-ethylhexyl) phthalate			32.0	27.9		ug/L		87	62 - 120	9	35
4-Bromophenyl phenyl ether			32.0	28.8		ug/L		90	55 - 120	10	35
Caprolactam			32.0	17.7		ug/L		55	10 - 120	4	35
Carbazole			32.0	33.5		ug/L		105	59 - 120	19	35
4-Chloroaniline			32.0	27.4		ug/L		86	10 - 120	11	35
4-Chloro-3-methylphenol			32.0	26.7		ug/L		83	59 - 120	9	35
2-Chloronaphthalene			32.0	25.3		ug/L		79	56 - 120	11	35
2-Chlorophenol			32.0	27.4		ug/L		86	62 - 120	11	35
4-Chlorophenyl phenyl ether			32.0	29.5		ug/L		92	57 - 120	11	35
Chrysene			32.0	27.2		ug/L		85	59 - 120	8	35
2-Methylnaphthalene			32.0	24.6		ug/L		77	57 - 120	11	35
3 & 4 Methylphenol			32.0	25.4		ug/L		79	53 - 120	13	35
Dibenz(a,h)anthracene			32.0	35.3		ug/L		110	39 - 125	4	35
Dibenzofuran			32.0	26.7		ug/L		84	58 - 120	10	35
3,3'-Dichlorobenzidine			64.0	52.1		ug/L		81	10 - 120	9	35
2,4-Dichlorophenol			32.0	29.3		ug/L		92	63 - 120	8	35
Diethyl phthalate			32.0	27.9		ug/L		87	64 - 120	9	35
2,4-Dimethylphenol			32.0	26.5		ug/L		83	41 - 120	12	35
Dimethyl phthalate			32.0	28.8		ug/L		90	63 - 120	9	35
4,6-Dinitro-2-methylphenol			64.0	52.4		ug/L		82	40 - 120	7	35
2,4-Dinitrophenol			64.0	46.2		ug/L		72	20 - 120	15	35
2,4-Dinitrotoluene			32.0	28.7		ug/L		90	62 - 120	7	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 240-259058/12-A
Matrix: Water
Analysis Batch: 259340

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259058

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-butyl phthalate			32.0	27.7		ug/L		87	58 - 120	10	35
Di-n-octyl phthalate			32.0	27.6		ug/L		86	58 - 128	10	35
Fluoranthene			32.0	31.0		ug/L		97	59 - 120	10	35
Fluorene			32.0	27.1		ug/L		85	57 - 120	10	35
Hexachlorobenzene			32.0	28.8		ug/L		90	48 - 120	12	35
Hexachlorobutadiene			32.0	27.1		ug/L		85	47 - 120	18	35
Hexachlorocyclopentadiene			32.0	17.7		ug/L		55	24 - 120	15	35
Hexachloroethane			32.0	22.4		ug/L		70	48 - 120	17	35
Indeno[1,2,3-cd]pyrene			32.0	36.2		ug/L		113	49 - 121	4	35
Isophorone			32.0	23.8		ug/L		74	66 - 120	8	35
2-Methylphenol			32.0	26.9		ug/L		84	55 - 120	13	35
Naphthalene			32.0	24.7		ug/L		77	58 - 120	11	35
2-Nitroaniline			32.0	26.5		ug/L		83	62 - 120	6	35
3-Nitroaniline			32.0	45.5		ug/L		142	10 - 171	12	35
4-Nitroaniline			32.0	35.2		ug/L		110	32 - 132	4	35
Nitrobenzene			32.0	25.7		ug/L		80	63 - 120	9	35
2-Nitrophenol			32.0	29.1		ug/L		91	65 - 120	7	35
4-Nitrophenol			64.0	31.5		ug/L		49	18 - 120	9	35
N-Nitrosodiphenylamine			32.0	26.6		ug/L		83	54 - 120	10	35
N-Nitrosodi-n-propylamine			32.0	24.3		ug/L		76	63 - 120	10	35
2,2'-oxybis(1-chloropropane)			32.0	21.7		ug/L		68	61 - 120	9	35
Pentachlorophenol			64.0	42.1		ug/L		66	33 - 120	14	35
Phenanthrene			32.0	26.4		ug/L		83	57 - 120	11	35
Phenol			32.0	16.4		ug/L		51	21 - 120	17	35
Pyrene			32.0	26.9		ug/L		84	57 - 120	10	35
2,4,5-Trichlorophenol			32.0	26.5		ug/L		83	61 - 120	6	35
2,4,6-Trichlorophenol			32.0	29.6		ug/L		92	57 - 120	10	35
2,6-Dinitrotoluene			32.0	31.1		ug/L		97	63 - 120	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*89*		*44 - 120*
2-Fluorophenol (Surr)	*93*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*103*		*36 - 120*
Nitrobenzene-d5 (Surr)	*86*		*44 - 120*
Phenol-d5 (Surr)	*57*		*16 - 120*
Terphenyl-d14 (Surr)	*100*		*43 - 120*

Lab Sample ID: MB 240-259604/17-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/15/16 10:52	12/20/16 11:36	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/15/16 10:52	12/20/16 11:36	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/20/16 11:36	1
Aniline	5.0	U	5.0	0.22	ug/L		12/15/16 10:52	12/20/16 11:36	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/15/16 10:52	12/20/16 11:36	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/15/16 10:52	12/20/16 11:36	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-259604/17-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/15/16 10:52	12/20/16 11:36	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/15/16 10:52	12/20/16 11:36	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/15/16 10:52	12/20/16 11:36	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/15/16 10:52	12/20/16 11:36	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/15/16 10:52	12/20/16 11:36	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/15/16 10:52	12/20/16 11:36	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/15/16 10:52	12/20/16 11:36	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/20/16 11:36	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/15/16 10:52	12/20/16 11:36	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/15/16 10:52	12/20/16 11:36	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/15/16 10:52	12/20/16 11:36	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/15/16 10:52	12/20/16 11:36	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/15/16 10:52	12/20/16 11:36	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/20/16 11:36	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/15/16 10:52	12/20/16 11:36	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/15/16 10:52	12/20/16 11:36	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/20/16 11:36	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/20/16 11:36	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/15/16 10:52	12/20/16 11:36	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/15/16 10:52	12/20/16 11:36	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/15/16 10:52	12/20/16 11:36	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/15/16 10:52	12/20/16 11:36	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/15/16 10:52	12/20/16 11:36	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/20/16 11:36	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/15/16 10:52	12/20/16 11:36	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/15/16 10:52	12/20/16 11:36	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/15/16 10:52	12/20/16 11:36	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/15/16 10:52	12/20/16 11:36	1
Di-n-butyl phthalate	0.415	J	1.0	0.40	ug/L		12/15/16 10:52	12/20/16 11:36	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/15/16 10:52	12/20/16 11:36	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/15/16 10:52	12/20/16 11:36	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/15/16 10:52	12/20/16 11:36	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/20/16 11:36	1
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/20/16 11:36	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/15/16 10:52	12/20/16 11:36	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/15/16 10:52	12/20/16 11:36	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/15/16 10:52	12/20/16 11:36	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/15/16 10:52	12/20/16 11:36	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/15/16 10:52	12/20/16 11:36	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/15/16 10:52	12/20/16 11:36	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/15/16 10:52	12/20/16 11:36	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/15/16 10:52	12/20/16 11:36	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/15/16 10:52	12/20/16 11:36	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/20/16 11:36	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-259604/17-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/15/16 10:52	12/20/16 11:36	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/15/16 10:52	12/20/16 11:36	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/20/16 11:36	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/15/16 10:52	12/20/16 11:36	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/15/16 10:52	12/20/16 11:36	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/15/16 10:52	12/20/16 11:36	1
Phenol	1.0	U	1.0	0.15	ug/L		12/15/16 10:52	12/20/16 11:36	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/15/16 10:52	12/20/16 11:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*44 - 120*	*12/15/16 10:52*	*12/20/16 11:36*	*1*
2-Fluorophenol (Surr)	*87*		*26 - 120*	*12/15/16 10:52*	*12/20/16 11:36*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*36 - 120*	*12/15/16 10:52*	*12/20/16 11:36*	*1*
Nitrobenzene-d5 (Surr)	*67*		*44 - 120*	*12/15/16 10:52*	*12/20/16 11:36*	*1*
Phenol-d5 (Surr)	*64*		*16 - 120*	*12/15/16 10:52*	*12/20/16 11:36*	*1*
Terphenyl-d14 (Surr)	*78*		*43 - 120*	*12/15/16 10:52*	*12/20/16 11:36*	*1*

Lab Sample ID: LCS 240-259604/18-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	25.5		ug/L		80	58 - 120
Acenaphthylene	32.0	25.2		ug/L		79	59 - 120
Acetophenone	32.0	26.7		ug/L		83	62 - 120
Aniline	32.0	25.7		ug/L		80	10 - 120
Anthracene	32.0	26.4		ug/L		83	58 - 120
Atrazine	32.0	27.1		ug/L		85	61 - 120
Benzaldehyde	32.0	19.5		ug/L		61	10 - 120
Benzo[a]anthracene	32.0	26.6		ug/L		83	58 - 120
Benzo[b]fluoranthene	32.0	32.0		ug/L		100	59 - 120
Benzo[k]fluoranthene	32.0	31.0		ug/L		97	61 - 120
Benzo[g,h,i]perylene	32.0	28.2		ug/L		88	41 - 127
Benzo[a]pyrene	32.0	32.3		ug/L		101	63 - 120
Butyl benzyl phthalate	32.0	29.1		ug/L		91	60 - 120
1,1'-Biphenyl	32.0	25.3		ug/L		79	53 - 120
Bis(2-chloroethoxy)methane	32.0	26.9		ug/L		84	63 - 120
Bis(2-chloroethyl)ether	32.0	25.0		ug/L		78	57 - 120
Bis(2-ethylhexyl) phthalate	32.0	28.5		ug/L		89	62 - 120
4-Bromophenyl phenyl ether	32.0	26.3		ug/L		82	55 - 120
Caprolactam	32.0	10.1		ug/L		32	10 - 120
Carbazole	32.0	28.1		ug/L		88	59 - 120
4-Chloroaniline	32.0	28.0		ug/L		88	10 - 120
4-Chloro-3-methylphenol	32.0	28.2		ug/L		88	59 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-259604/18-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	32.0	25.1		ug/L		79	56 - 120
2-Chlorophenol	32.0	27.3		ug/L		85	62 - 120
4-Chlorophenyl phenyl ether	32.0	26.5		ug/L		83	57 - 120
Chrysene	32.0	26.0		ug/L		81	59 - 120
2-Methylnaphthalene	32.0	25.0		ug/L		78	57 - 120
3 & 4 Methylphenol	32.0	24.1		ug/L		75	53 - 120
Dibenz(a,h)anthracene	32.0	29.2		ug/L		91	39 - 125
Dibenzofuran	32.0	25.9		ug/L		81	58 - 120
3,3'-Dichlorobenzidine	64.0	62.0		ug/L		97	10 - 120
2,4-Dichlorophenol	32.0	26.1		ug/L		82	63 - 120
Diethyl phthalate	32.0	26.9		ug/L		84	64 - 120
2,4-Dimethylphenol	32.0	28.8		ug/L		90	41 - 120
Dimethyl phthalate	32.0	27.4		ug/L		86	63 - 120
4,6-Dinitro-2-methylphenol	64.0	49.7		ug/L		78	40 - 120
2,4-Dinitrophenol	64.0	46.1		ug/L		72	20 - 120
2,4-Dinitrotoluene	32.0	26.2		ug/L		82	62 - 120
Di-n-butyl phthalate	32.0	26.3		ug/L		82	58 - 120
Di-n-octyl phthalate	32.0	30.4		ug/L		95	58 - 128
Fluoranthene	32.0	26.9		ug/L		84	59 - 120
Fluorene	32.0	26.2		ug/L		82	57 - 120
Hexachlorobenzene	32.0	24.5		ug/L		77	48 - 120
Hexachlorobutadiene	32.0	23.9		ug/L		75	47 - 120
Hexachlorocyclopentadiene	32.0	16.0		ug/L		50	24 - 120
Hexachloroethane	32.0	22.7		ug/L		71	48 - 120
Indeno[1,2,3-cd]pyrene	32.0	29.7		ug/L		93	49 - 121
Isophorone	32.0	26.0		ug/L		81	66 - 120
2-Methylphenol	32.0	27.5		ug/L		86	55 - 120
Naphthalene	32.0	24.7		ug/L		77	58 - 120
2-Nitroaniline	32.0	29.6		ug/L		93	62 - 120
3-Nitroaniline	32.0	33.7		ug/L		105	10 - 171
4-Nitroaniline	32.0	31.0		ug/L		97	32 - 132
Nitrobenzene	32.0	28.1		ug/L		88	63 - 120
2-Nitrophenol	32.0	28.9		ug/L		90	65 - 120
4-Nitrophenol	64.0	32.7		ug/L		51	18 - 120
N-Nitrosodiphenylamine	32.0	26.1		ug/L		82	54 - 120
N-Nitrosodi-n-propylamine	32.0	26.4		ug/L		82	63 - 120
2,2'-oxybis(1-chloropropane)	32.0	25.6		ug/L		80	61 - 120
Pentachlorophenol	64.0	44.4		ug/L		69	33 - 120
Phenanthrene	32.0	25.4		ug/L		79	57 - 120
Phenol	32.0	17.6		ug/L		55	21 - 120
Pyrene	32.0	26.6		ug/L		83	57 - 120
2,4,5-Trichlorophenol	32.0	25.5		ug/L		80	61 - 120
2,4,6-Trichlorophenol	32.0	28.0		ug/L		87	57 - 120
2,6-Dinitrotoluene	32.0	28.3		ug/L		88	63 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*83*		*44 - 120*
2-Fluorophenol (Surr)	*92*		*26 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-259604/18-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259604

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*79*		*36 - 120*
Nitrobenzene-d5 (Surr)	*89*		*44 - 120*
Phenol-d5 (Surr)	*56*		*16 - 120*
Terphenyl-d14 (Surr)	*91*		*43 - 120*

Lab Sample ID: LCSD 240-259604/19-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259604

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			32.0	27.1		ug/L		85	58 - 120	6	35
Acenaphthylene			32.0	27.3		ug/L		85	59 - 120	8	35
Acetophenone			32.0	29.0		ug/L		91	62 - 120	8	35
Aniline			32.0	30.1		ug/L		94	10 - 120	16	35
Anthracene			32.0	28.1		ug/L		88	58 - 120	6	35
Atrazine			32.0	29.7		ug/L		93	61 - 120	9	35
Benzaldehyde			32.0	24.9		ug/L		78	10 - 120	24	35
Benzo[a]anthracene			32.0	28.1		ug/L		88	58 - 120	5	35
Benzo[b]fluoranthene			32.0	33.9		ug/L		106	59 - 120	6	35
Benzo[k]fluoranthene			32.0	34.0		ug/L		106	61 - 120	9	35
Benzo[g,h,i]perylene			32.0	30.0		ug/L		94	41 - 127	6	35
Benzo[a]pyrene			32.0	34.9		ug/L		109	63 - 120	8	35
Butyl benzyl phthalate			32.0	30.7		ug/L		96	60 - 120	5	35
1,1'-Biphenyl			32.0	27.1		ug/L		85	53 - 120	7	35
Bis(2-chloroethoxy)methane			32.0	28.4		ug/L		89	63 - 120	6	35
Bis(2-chloroethyl)ether			32.0	26.8		ug/L		84	57 - 120	7	35
Bis(2-ethylhexyl) phthalate			32.0	31.3		ug/L		98	62 - 120	9	35
4-Bromophenyl phenyl ether			32.0	27.7		ug/L		87	55 - 120	6	35
Caprolactam			32.0	16.6	*	ug/L		52	10 - 120	49	35
Carbazole			32.0	29.9		ug/L		94	59 - 120	6	35
4-Chloroaniline			32.0	32.0		ug/L		100	10 - 120	13	35
4-Chloro-3-methylphenol			32.0	30.3		ug/L		95	59 - 120	7	35
2-Chloronaphthalene			32.0	26.8		ug/L		84	56 - 120	6	35
2-Chlorophenol			32.0	30.0		ug/L		94	62 - 120	9	35
4-Chlorophenyl phenyl ether			32.0	28.4		ug/L		89	57 - 120	7	35
Chrysene			32.0	27.4		ug/L		86	59 - 120	5	35
2-Methylnaphthalene			32.0	26.8		ug/L		84	57 - 120	7	35
3 & 4 Methylphenol			32.0	27.4		ug/L		86	53 - 120	13	35
Dibenz(a,h)anthracene			32.0	31.5		ug/L		99	39 - 125	8	35
Dibenzofuran			32.0	27.4		ug/L		86	58 - 120	6	35
3,3'-Dichlorobenzidine			64.0	62.6		ug/L		98	10 - 120	1	35
2,4-Dichlorophenol			32.0	28.0		ug/L		87	63 - 120	7	35
Diethyl phthalate			32.0	28.6		ug/L		89	64 - 120	6	35
2,4-Dimethylphenol			32.0	26.3		ug/L		82	41 - 120	9	35
Dimethyl phthalate			32.0	29.3		ug/L		92	63 - 120	7	35
4,6-Dinitro-2-methylphenol			64.0	52.2		ug/L		82	40 - 120	5	35
2,4-Dinitrophenol			64.0	49.2		ug/L		77	20 - 120	7	35
2,4-Dinitrotoluene			32.0	28.1		ug/L		88	62 - 120	7	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 240-259604/19-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259604

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-butyl phthalate			32.0	28.3		ug/L		89	58 - 120	7	35
Di-n-octyl phthalate			32.0	33.1		ug/L		103	58 - 128	8	35
Fluoranthene			32.0	28.5		ug/L		89	59 - 120	6	35
Fluorene			32.0	27.8		ug/L		87	57 - 120	6	35
Hexachlorobenzene			32.0	25.9		ug/L		81	48 - 120	6	35
Hexachlorobutadiene			32.0	25.3		ug/L		79	47 - 120	6	35
Hexachlorocyclopentadiene			32.0	16.9		ug/L		53	24 - 120	5	35
Hexachloroethane			32.0	24.8		ug/L		77	48 - 120	9	35
Indeno[1,2,3-cd]pyrene			32.0	32.2		ug/L		101	49 - 121	8	35
Isophorone			32.0	27.6		ug/L		86	66 - 120	6	35
2-Methylphenol			32.0	29.7		ug/L		93	55 - 120	8	35
Naphthalene			32.0	26.5		ug/L		83	58 - 120	7	35
2-Nitroaniline			32.0	31.4		ug/L		98	62 - 120	6	35
3-Nitroaniline			32.0	52.9	E *	ug/L		165	10 - 171	44	35
4-Nitroaniline			32.0	34.3		ug/L		107	32 - 132	10	35
Nitrobenzene			32.0	29.8		ug/L		93	63 - 120	6	35
2-Nitrophenol			32.0	31.1		ug/L		97	65 - 120	7	35
4-Nitrophenol			64.0	43.2		ug/L		67	18 - 120	28	35
N-Nitrosodiphenylamine			32.0	27.6		ug/L		86	54 - 120	6	35
N-Nitrosodi-n-propylamine			32.0	28.8		ug/L		90	63 - 120	9	35
2,2'-oxybis(1-chloropropane)			32.0	27.7		ug/L		87	61 - 120	8	35
Pentachlorophenol			64.0	42.3		ug/L		66	33 - 120	5	35
Phenanthrene			32.0	26.9		ug/L		84	57 - 120	6	35
Phenol			32.0	23.3		ug/L		73	21 - 120	28	35
Pyrene			32.0	28.1		ug/L		88	57 - 120	5	35
2,4,5-Trichlorophenol			32.0	27.3		ug/L		85	61 - 120	7	35
2,4,6-Trichlorophenol			32.0	29.9		ug/L		93	57 - 120	7	35
2,6-Dinitrotoluene			32.0	30.3		ug/L		95	63 - 120	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*88*		*44 - 120*
2-Fluorophenol (Surr)	*112*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*86*		*36 - 120*
Nitrobenzene-d5 (Surr)	*92*		*44 - 120*
Phenol-d5 (Surr)	*75*		*16 - 120*
Terphenyl-d14 (Surr)	*97*		*43 - 120*

Lab Sample ID: 240-73120-9 MS
Matrix: Water
Analysis Batch: 260366

Client Sample ID: 20161208UAW26-70V72N
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.24	U	34.8	26.1		ug/L		75	34 - 120
Acenaphthylene	0.24	U	34.8	26.1		ug/L		75	33 - 120
Acetophenone	1.2	U	34.8	27.1		ug/L		78	34 - 120
Aniline	6.0	U	34.8	26.3		ug/L		76	10 - 120
Anthracene	0.24	U	34.8	27.1		ug/L		78	35 - 120
Atrazine	2.4	U	34.8	29.6		ug/L		85	10 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-73120-9 MS | **Client Sample ID: 20161208UAW26-70V72N**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 260366 | **Prep Batch: 259604**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzaldehyde	2.4	U F2	34.8	6.75		ug/L		19	10 - 120
Benzo[a]anthracene	0.24	U	34.8	27.4		ug/L		79	35 - 120
Benzo[b]fluoranthene	0.24	U	34.8	34.1		ug/L		98	36 - 122
Benzo[k]fluoranthene	0.24	U	34.8	33.3		ug/L		96	38 - 120
Benzo[g,h,i]perylene	0.24	U	34.8	29.9		ug/L		86	10 - 129
Benzo[a]pyrene	0.24	U	34.8	33.7		ug/L		97	34 - 120
Butyl benzyl phthalate	1.2	U	34.8	31.2		ug/L		90	30 - 120
1,1'-Biphenyl	1.2	U	34.8	25.9		ug/L		74	10 - 120
Bis(2-chloroethoxy)methane	1.2	U	34.8	28.2		ug/L		81	34 - 120
Bis(2-chloroethyl)ether	1.2	U	34.8	24.8		ug/L		71	31 - 121
Bis(2-ethylhexyl) phthalate	2.4	U	34.8	30.3		ug/L		87	27 - 120
4-Bromophenyl phenyl ether	2.4	U	34.8	26.5		ug/L		76	27 - 120
Caprolactam	6.0	U *	34.8	15.7		ug/L		45	10 - 120
Carbazole	1.2	U	34.8	26.9		ug/L		77	10 - 120
4-Chloroaniline	2.4	U	34.8	23.6		ug/L		68	10 - 120
4-Chloro-3-methylphenol	2.4	U	34.8	29.7		ug/L		85	15 - 127
2-Chloronaphthalene	1.2	U	34.8	25.6		ug/L		74	25 - 120
2-Chlorophenol	1.2	U	34.8	26.9		ug/L		77	34 - 120
4-Chlorophenyl phenyl ether	2.4	U	34.8	27.1		ug/L		78	26 - 120
Chrysene	0.24	U	34.8	26.9		ug/L		77	37 - 120
2-Methylnaphthalene	0.24	U	34.8	24.8		ug/L		71	26 - 120
3 & 4 Methylphenol	2.4	U	34.8	26.4		ug/L		76	33 - 120
Dibenz(a,h)anthracene	0.24	U	34.8	30.3		ug/L		87	10 - 120
Dibenzofuran	1.2	U	34.8	26.3		ug/L		76	28 - 120
3,3'-Dichlorobenzidine	6.0	U	69.6	57.5		ug/L		83	10 - 120
2,4-Dichlorophenol	2.4	U	34.8	27.1		ug/L		78	33 - 120
Diethyl phthalate	1.2	U	34.8	29.3		ug/L		84	33 - 120
2,4-Dimethylphenol	2.4	U	34.8	29.0		ug/L		83	17 - 120
Dimethyl phthalate	1.2	U	34.8	29.6		ug/L		85	32 - 120
4,6-Dinitro-2-methylphenol	6.0	U	69.6	47.2		ug/L		68	11 - 120
2,4-Dinitrophenol	48	U	69.6	43.0		ug/L		62	10 - 127
2,4-Dinitrotoluene	6.0	U	34.8	28.3		ug/L		81	33 - 120
Di-n-butyl phthalate	1.2	U	34.8	28.4		ug/L		82	31 - 120
Di-n-octyl phthalate	1.2	U	34.8	33.7		ug/L		97	10 - 120
Fluoranthene	0.24	U	34.8	28.0		ug/L		80	36 - 120
Fluorene	0.24	U	34.8	27.2		ug/L		78	35 - 120
Hexachlorobenzene	1.2	U	34.8	24.9		ug/L		72	25 - 120
Hexachlorobutadiene	1.2	U	34.8	23.0		ug/L		66	19 - 120
Hexachlorocyclopentadiene	12	U	34.8	16.3		ug/L		47	12 - 120
Hexachloroethane	1.2	U	34.8	21.5		ug/L		62	20 - 120
Indeno[1,2,3-cd]pyrene	0.24	U	34.8	31.3		ug/L		90	10 - 123
Isophorone	1.2	U	34.8	27.0		ug/L		78	35 - 120
2-Methylphenol	1.2	U	34.8	28.7		ug/L		83	31 - 120
Naphthalene	0.24	U	34.8	24.7		ug/L		71	14 - 120
2-Nitroaniline	2.4	U	34.8	31.7		ug/L		91	32 - 120
3-Nitroaniline	2.4	U *	34.8	29.1		ug/L		84	10 - 120
4-Nitroaniline	2.4	U	34.8	30.6		ug/L		88	10 - 120
Nitrobenzene	1.2	U	34.8	28.5		ug/L		82	35 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-73120-9 MS
Matrix: Water
Analysis Batch: 260366

Client Sample ID: 20161208UAW26-70V72N
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitrophenol	2.4	U	34.8	30.0		ug/L		86	32 - 122
4-Nitrophenol	6.0	U	69.6	44.3		ug/L		64	15 - 120
N-Nitrosodiphenylamine	1.2	U	34.8	27.8		ug/L		80	10 - 125
N-Nitrosodi-n-propylamine	1.2	U	34.8	26.9		ug/L		77	35 - 120
2,2'-oxybis(1-chloropropane)	1.2	U	34.8	26.1		ug/L		75	28 - 120
Pentachlorophenol	48	U	69.6	43.2		ug/L		62	16 - 120
Phenanthrene	0.24	U	34.8	26.1		ug/L		75	36 - 120
Phenol	1.2	U	34.8	23.5		ug/L		68	20 - 120
Pyrene	0.24	U	34.8	28.1		ug/L		81	36 - 120
2,4,5-Trichlorophenol	6.0	U	34.8	27.3		ug/L		78	29 - 120
2,4,6-Trichlorophenol	6.0	U	34.8	29.8		ug/L		86	29 - 120
2,6-Dinitrotoluene	6.0	U	34.8	30.3		ug/L		87	32 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*74*		*44 - 120*
2-Fluorophenol (Surr)	*93*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*75*		*36 - 120*
Nitrobenzene-d5 (Surr)	*80*		*44 - 120*
Phenol-d5 (Surr)	*69*		*16 - 120*
Terphenyl-d14 (Surr)	*85*		*43 - 120*

Lab Sample ID: 240-73120-9 MSD
Matrix: Water
Analysis Batch: 260366

Client Sample ID: 20161208UAW26-70V72N
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.24	U	33.3	26.3		ug/L		79	34 - 120	1	35
Acenaphthylene	0.24	U	33.3	26.9		ug/L		81	33 - 120	3	35
Acetophenone	1.2	U	33.3	29.6		ug/L		89	34 - 120	9	35
Aniline	6.0	U	33.3	27.7		ug/L		83	10 - 120	5	35
Anthracene	0.24	U	33.3	28.0		ug/L		84	35 - 120	3	35
Atrazine	2.4	U	33.3	30.8		ug/L		92	10 - 120	4	35
Benzaldehyde	2.4	U F2	33.3	12.9	F2	ug/L		39	10 - 120	62	35
Benzo[a]anthracene	0.24	U	33.3	27.8		ug/L		83	35 - 120	1	35
Benzo[b]fluoranthene	0.24	U	33.3	33.3		ug/L		100	36 - 122	2	35
Benzo[k]fluoranthene	0.24	U	33.3	32.5		ug/L		98	38 - 120	2	35
Benzo[g,h,i]perylene	0.24	U	33.3	28.4		ug/L		85	10 - 129	5	35
Benzo[a]pyrene	0.24	U	33.3	33.8		ug/L		101	34 - 120	0	35
Butyl benzyl phthalate	1.2	U	33.3	31.5		ug/L		94	30 - 120	1	35
1,1'-Biphenyl	1.2	U	33.3	26.4		ug/L		79	10 - 120	2	35
Bis(2-chloroethoxy)methane	1.2	U	33.3	29.2		ug/L		88	34 - 120	4	35
Bis(2-chloroethyl)ether	1.2	U	33.3	28.6		ug/L		86	31 - 121	14	35
Bis(2-ethylhexyl) phthalate	2.4	U	33.3	29.9		ug/L		90	27 - 120	1	35
4-Bromophenyl phenyl ether	2.4	U	33.3	27.7		ug/L		83	27 - 120	4	35
Caprolactam	6.0	U *	33.3	19.4		ug/L		58	10 - 120	21	35
Carbazole	1.2	U	33.3	24.7		ug/L		74	10 - 120	9	35
4-Chloroaniline	2.4	U	33.3	24.4		ug/L		73	10 - 120	3	35
4-Chloro-3-methylphenol	2.4	U	33.3	31.5		ug/L		94	15 - 127	6	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-73120-9 MSD
Matrix: Water
Analysis Batch: 260366

Client Sample ID: 20161208UAW26-70V72N
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloronaphthalene	1.2	U	33.3	26.2		ug/L		78	25 - 120	2	35
2-Chlorophenol	1.2	U	33.3	30.4		ug/L		91	34 - 120	12	35
4-Chlorophenyl phenyl ether	2.4	U	33.3	27.7		ug/L		83	26 - 120	2	35
Chrysene	0.24	U	33.3	26.9		ug/L		81	37 - 120	0	35
2-Methylnaphthalene	0.24	U	33.3	26.2		ug/L		79	26 - 120	5	35
3 & 4 Methylphenol	2.4	U	33.3	28.8		ug/L		86	33 - 120	9	35
Dibenz(a,h)anthracene	0.24	U	33.3	30.0		ug/L		90	10 - 120	1	35
Dibenzofuran	1.2	U	33.3	27.0		ug/L		81	28 - 120	3	35
3,3'-Dichlorobenzidine	6.0	U	66.7	56.0		ug/L		84	10 - 120	3	35
2,4-Dichlorophenol	2.4	U	33.3	28.6		ug/L		86	33 - 120	5	35
Diethyl phthalate	1.2	U	33.3	29.4		ug/L		88	33 - 120	0	35
2,4-Dimethylphenol	2.4	U	33.3	30.0		ug/L		90	17 - 120	3	35
Dimethyl phthalate	1.2	U	33.3	29.9		ug/L		90	32 - 120	1	35
4,6-Dinitro-2-methylphenol	6.0	U	66.7	50.2		ug/L		75	11 - 120	6	35
2,4-Dinitrophenol	48	U	66.7	44.7		ug/L		67	10 - 127	4	35
2,4-Dinitrotoluene	6.0	U	33.3	28.8		ug/L		87	33 - 120	2	35
Di-n-butyl phthalate	1.2	U	33.3	28.7		ug/L		86	31 - 120	1	35
Di-n-octyl phthalate	1.2	U	33.3	33.3		ug/L		100	10 - 120	1	35
Fluoranthene	0.24	U	33.3	28.9		ug/L		87	36 - 120	3	35
Fluorene	0.24	U	33.3	27.3		ug/L		82	35 - 120	0	35
Hexachlorobenzene	1.2	U	33.3	26.1		ug/L		78	25 - 120	5	35
Hexachlorobutadiene	1.2	U	33.3	24.9		ug/L		75	19 - 120	8	35
Hexachlorocyclopentadiene	12	U	33.3	16.6		ug/L		50	12 - 120	2	35
Hexachloroethane	1.2	U	33.3	23.2		ug/L		70	20 - 120	8	35
Indeno[1,2,3-cd]pyrene	0.24	U	33.3	30.7		ug/L		92	10 - 123	2	35
Isophorone	1.2	U	33.3	28.6		ug/L		86	35 - 120	6	35
2-Methylphenol	1.2	U	33.3	31.2		ug/L		94	31 - 120	8	35
Naphthalene	0.24	U	33.3	25.9		ug/L		78	14 - 120	5	35
2-Nitroaniline	2.4	U	33.3	32.2		ug/L		96	32 - 120	1	35
3-Nitroaniline	2.4	U *	33.3	29.2		ug/L		87	10 - 120	0	35
4-Nitroaniline	2.4	U	33.3	30.8		ug/L		92	10 - 120	1	35
Nitrobenzene	1.2	U	33.3	30.5		ug/L		92	35 - 120	7	35
2-Nitrophenol	2.4	U	33.3	31.7		ug/L		95	32 - 122	6	35
4-Nitrophenol	6.0	U	66.7	40.7		ug/L		61	15 - 120	9	35
N-Nitrosodiphenylamine	1.2	U	33.3	28.0		ug/L		84	10 - 125	1	35
N-Nitrosodi-n-propylamine	1.2	U	33.3	29.7		ug/L		89	35 - 120	10	35
2,2'-oxybis(1-chloropropane)	1.2	U	33.3	28.2		ug/L		85	28 - 120	8	35
Pentachlorophenol	48	U	66.7	43.1		ug/L		65	16 - 120	0	31
Phenanthrene	0.24	U	33.3	26.8		ug/L		80	36 - 120	3	35
Phenol	1.2	U	33.3	25.6		ug/L		77	20 - 120	8	35
Pyrene	0.24	U	33.3	28.9		ug/L		87	36 - 120	3	35
2,4,5-Trichlorophenol	6.0	U	33.3	27.7		ug/L		83	29 - 120	1	35
2,4,6-Trichlorophenol	6.0	U	33.3	30.4		ug/L		91	29 - 120	2	35
2,6-Dinitrotoluene	6.0	U	33.3	31.0		ug/L		93	32 - 120	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*81*		*44 - 120*
2-Fluorophenol (Surr)	*103*		*26 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-73120-9 MSD
Matrix: Water
Analysis Batch: 260366

Client Sample ID: 20161208UAW26-70V72N
Prep Type: Total/NA
Prep Batch: 259604

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*81*		*36 - 120*
Nitrobenzene-d5 (Surr)	*91*		*44 - 120*
Phenol-d5 (Surr)	*78*		*16 - 120*
Terphenyl-d14 (Surr)	*92*		*43 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-259025/1-A
Matrix: Water
Analysis Batch: 259348

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259025

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/12/16 14:00	12/13/16 22:07	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/13/16 22:07	1
Barium	200	U	200	2.4	ug/L		12/12/16 14:00	12/13/16 22:07	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/12/16 14:00	12/13/16 22:07	1
Calcium	5000	U	5000	710	ug/L		12/12/16 14:00	12/13/16 22:07	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/13/16 22:07	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/12/16 14:00	12/13/16 22:07	1
Chromium	5.0	U	5.0	0.55	ug/L		12/12/16 14:00	12/13/16 22:07	1
Copper	25	U	25	3.9	ug/L		12/12/16 14:00	12/13/16 22:07	1
Iron	100	U	100	25	ug/L		12/12/16 14:00	12/13/16 22:07	1
Potassium	287	J	5000	70	ug/L		12/12/16 14:00	12/13/16 22:07	1
Magnesium	5000	U	5000	230	ug/L		12/12/16 14:00	12/13/16 22:07	1
Manganese	15	U	15	5.1	ug/L		12/12/16 14:00	12/13/16 22:07	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/13/16 22:07	1
Sodium	585	J	5000	330	ug/L		12/12/16 14:00	12/13/16 22:07	1
Nickel	40	U	40	1.6	ug/L		12/12/16 14:00	12/13/16 22:07	1
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/13/16 22:07	1
Zinc	50	U	50	16	ug/L		12/12/16 14:00	12/13/16 22:07	1
Arsenic	10	U	10	3.3	ug/L		12/12/16 14:00	12/13/16 22:07	1
Lead	5.0	U	5.0	1.9	ug/L		12/12/16 14:00	12/13/16 22:07	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/13/16 22:07	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/13/16 22:07	1
Tin	100	U	100	1.8	ug/L		12/12/16 14:00	12/13/16 22:07	1

Lab Sample ID: LCS 240-259025/2-A
Matrix: Water
Analysis Batch: 259348

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259025

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	1970		ug/L		98	80 - 120
Antimony	500	517		ug/L		103	80 - 120
Barium	2000	1920		ug/L		96	80 - 120
Beryllium	50.0	48.3		ug/L		97	80 - 120
Calcium	50000	49300		ug/L		99	80 - 120
Cadmium	50.0	50.9		ug/L		102	80 - 120
Cobalt	500	491		ug/L		98	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-259025/2-A
Matrix: Water
Analysis Batch: 259348

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259025

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	200	188		ug/L		94	80 - 120
Copper	250	245		ug/L		98	80 - 120
Iron	1000	1000		ug/L		100	80 - 120
Potassium	50000	47900		ug/L		96	80 - 120
Magnesium	50000	49000		ug/L		98	80 - 120
Manganese	500	480		ug/L		96	80 - 120
Silver	50.0	49.4		ug/L		99	80 - 120
Sodium	50000	48000		ug/L		96	80 - 120
Nickel	500	501		ug/L		100	80 - 120
Vanadium	500	480		ug/L		96	80 - 120
Zinc	500	503		ug/L		101	80 - 120
Arsenic	2000	2080		ug/L		104	80 - 120
Lead	500	482		ug/L		96	80 - 120
Selenium	2000	2070		ug/L		104	80 - 120
Thallium	2000	1950		ug/L		98	80 - 120
Tin	2000	1980		ug/L		99	80 - 120

Lab Sample ID: 240-73120-9 MS
Matrix: Water
Analysis Batch: 259348

Client Sample ID: 20161208UAW26-70V72N
Prep Type: Total Recoverable
Prep Batch: 259025

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200	U	2000	2050		ug/L		102	75 - 125
Antimony	10	U	500	525		ug/L		105	75 - 125
Barium	260		2000	2220		ug/L		98	75 - 125
Beryllium	5.0	U	50.0	47.8		ug/L		96	75 - 125
Calcium	130000		50000	183000		ug/L		103	75 - 125
Cadmium	2.0	U	50.0	52.2		ug/L		104	75 - 125
Cobalt	7.0	U	500	496		ug/L		99	75 - 125
Chromium	2.0	J	200	191		ug/L		95	75 - 125
Copper	25	U	250	248		ug/L		99	75 - 125
Iron	3100		1000	4160		ug/L		107	75 - 125
Potassium	1600	J B	50000	50800		ug/L		98	75 - 125
Magnesium	43000		50000	94000		ug/L		102	75 - 125
Manganese	280		500	778		ug/L		99	75 - 125
Silver	5.0	U	50.0	50.8		ug/L		102	75 - 125
Sodium	28000	B	50000	78800		ug/L		101	75 - 125
Nickel	1.6	J	500	503		ug/L		100	75 - 125
Vanadium	10	U	500	487		ug/L		97	75 - 125
Zinc	50	U	500	509		ug/L		102	75 - 125
Arsenic	13		2000	2130		ug/L		106	75 - 125
Lead	2.5	J	500	482		ug/L		96	75 - 125
Selenium	15	U	2000	2100		ug/L		105	75 - 125
Thallium	10	U	2000	1950		ug/L		97	75 - 125
Tin	100	U	2000	2040		ug/L		102	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-73120-9 MSD — **Client Sample ID: 20161208UAW26-70V72N**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 259348 — **Prep Batch: 259025**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	200	U	2000	2020		ug/L		101	75 - 125	1	20
Antimony	10	U	500	523		ug/L		105	75 - 125	0	20
Barium	260		2000	2220		ug/L		98	75 - 125	0	20
Beryllium	5.0	U	50.0	47.7		ug/L		95	75 - 125	0	20
Calcium	130000		50000	185000		ug/L		106	75 - 125	1	20
Cadmium	2.0	U	50.0	52.0		ug/L		104	75 - 125	0	20
Cobalt	7.0	U	500	493		ug/L		99	75 - 125	0	20
Chromium	2.0	J	200	192		ug/L		95	75 - 125	0	20
Copper	25	U	250	249		ug/L		100	75 - 125	0	20
Iron	3100		1000	4180		ug/L		109	75 - 125	1	20
Potassium	1600	J B	50000	50800		ug/L		98	75 - 125	0	20
Magnesium	43000		50000	93800		ug/L		102	75 - 125	0	20
Manganese	280		500	781		ug/L		100	75 - 125	0	20
Silver	5.0	U	50.0	50.7		ug/L		101	75 - 125	0	20
Sodium	28000	B	50000	78500		ug/L		101	75 - 125	0	20
Nickel	1.6	J	500	503		ug/L		100	75 - 125	0	20
Vanadium	10	U	500	485		ug/L		97	75 - 125	0	20
Zinc	50	U	500	508		ug/L		102	75 - 125	0	20
Arsenic	13		2000	2130		ug/L		106	75 - 125	0	20
Lead	2.5	J	500	479		ug/L		95	75 - 125	1	20
Selenium	15	U	2000	2090		ug/L		105	75 - 125	0	20
Thallium	10	U	2000	1940		ug/L		97	75 - 125	0	20
Tin	100	U	2000	2030		ug/L		102	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-259028/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259334 — **Prep Batch: 259028**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 12:13	1

Lab Sample ID: LCS 240-259028/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259334 — **Prep Batch: 259028**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.87		ug/L		97	80 - 120

Lab Sample ID: 240-73120-9 MS — **Client Sample ID: 20161208UAW26-70V72N**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259334 — **Prep Batch: 259028**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	0.952		ug/L		95	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 240-73120-9 MSD
Matrix: Water
Analysis Batch: 259334

Client Sample ID: 20161208UAW26-70V72N
Prep Type: Total/NA
Prep Batch: 259028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.844		ug/L		84	80 - 120	12	20

GC/MS VOA

Analysis Batch: 259893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73120-1	20161207UAW02-20V15N	Total/NA	Water	8260B	
240-73120-2	20161207UAW04-20V16N	Total/NA	Water	8260B	
240-73120-3	20161208MW-EPA-4V19N	Total/NA	Water	8260B	
240-73120-4	20161208UAW15-50V42N	Total/NA	Water	8260B	
240-73120-5	20161208UAW11-40V39N	Total/NA	Water	8260B	
240-73120-6	20161207UAW02-40V41N	Total/NA	Water	8260B	
240-73120-7	20161207UAW02-40V41FD	Total/NA	Water	8260B	
240-73120-8	20161207UAW03-20V15N	Total/NA	Water	8260B	
240-73120-9	20161208UAW26-70V72N	Total/NA	Water	8260B	
240-73120-10	20161208UAW15-20V19N	Total/NA	Water	8260B	
240-73120-11	20161208UAW11-10V12N	Total/NA	Water	8260B	
240-73120-12	TRIP BLANK	Total/NA	Water	8260B	
MB 240-259893/7	Method Blank	Total/NA	Water	8260B	
LCS 240-259893/4	Lab Control Sample	Total/NA	Water	8260B	
240-73120-9 MS	20161208UAW26-70V72N	Total/NA	Water	8260B	
240-73120-9 MSD	20161208UAW26-70V72N	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 259058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73120-1	20161207UAW02-20V15N	Total/NA	Water	3510C	
240-73120-2	20161207UAW04-20V16N	Total/NA	Water	3510C	
240-73120-6	20161207UAW02-40V41N	Total/NA	Water	3510C	
240-73120-7	20161207UAW02-40V41FD	Total/NA	Water	3510C	
240-73120-8	20161207UAW03-20V15N	Total/NA	Water	3510C	
MB 240-259058/5-A	Method Blank	Total/NA	Water	3510C	
LCS 240-259058/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-259058/12-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 259340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73120-1	20161207UAW02-20V15N	Total/NA	Water	8270C	259058
240-73120-2	20161207UAW04-20V16N	Total/NA	Water	8270C	259058
240-73120-6	20161207UAW02-40V41N	Total/NA	Water	8270C	259058
240-73120-7	20161207UAW02-40V41FD	Total/NA	Water	8270C	259058
240-73120-8	20161207UAW03-20V15N	Total/NA	Water	8270C	259058
MB 240-259058/5-A	Method Blank	Total/NA	Water	8270C	259058
LCS 240-259058/6-A	Lab Control Sample	Total/NA	Water	8270C	259058
LCSD 240-259058/12-A	Lab Control Sample Dup	Total/NA	Water	8270C	259058

Prep Batch: 259604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73120-3	20161208MW-EPA-4V19N	Total/NA	Water	3510C	
240-73120-4	20161208UAW15-50V42N	Total/NA	Water	3510C	
240-73120-5	20161208UAW11-40V39N	Total/NA	Water	3510C	
240-73120-9	20161208UAW26-70V72N	Total/NA	Water	3510C	
240-73120-10	20161208UAW15-20V19N	Total/NA	Water	3510C	
240-73120-11	20161208UAW11-10V12N	Total/NA	Water	3510C	
MB 240-259604/17-A	Method Blank	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 259604 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-259604/18-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-259604/19-A	Lab Control Sample Dup	Total/NA	Water	3510C	
240-73120-9 MS	20161208UAW26-70V72N	Total/NA	Water	3510C	
240-73120-9 MSD	20161208UAW26-70V72N	Total/NA	Water	3510C	

Analysis Batch: 260187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-259604/17-A	Method Blank	Total/NA	Water	8270C	259604
LCS 240-259604/18-A	Lab Control Sample	Total/NA	Water	8270C	259604
LCSD 240-259604/19-A	Lab Control Sample Dup	Total/NA	Water	8270C	259604

Analysis Batch: 260366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73120-3	20161208MW-EPA-4V19N	Total/NA	Water	8270C	259604
240-73120-4	20161208UAW15-50V42N	Total/NA	Water	8270C	259604
240-73120-5	20161208UAW11-40V39N	Total/NA	Water	8270C	259604
240-73120-9	20161208UAW26-70V72N	Total/NA	Water	8270C	259604
240-73120-10	20161208UAW15-20V19N	Total/NA	Water	8270C	259604
240-73120-11	20161208UAW11-10V12N	Total/NA	Water	8270C	259604
240-73120-9 MS	20161208UAW26-70V72N	Total/NA	Water	8270C	259604
240-73120-9 MSD	20161208UAW26-70V72N	Total/NA	Water	8270C	259604

Metals

Prep Batch: 259025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73120-1	20161207UAW02-20V15N	Total Recoverable	Water	3005A	
240-73120-2	20161207UAW04-20V16N	Total Recoverable	Water	3005A	
240-73120-3	20161208MW-EPA-4V19N	Total Recoverable	Water	3005A	
240-73120-4	20161208UAW15-50V42N	Total Recoverable	Water	3005A	
240-73120-5	20161208UAW11-40V39N	Total Recoverable	Water	3005A	
240-73120-6	20161207UAW02-40V41N	Total Recoverable	Water	3005A	
240-73120-7	20161207UAW02-40V41FD	Total Recoverable	Water	3005A	
240-73120-8	20161207UAW03-20V15N	Total Recoverable	Water	3005A	
240-73120-9	20161208UAW26-70V72N	Total Recoverable	Water	3005A	
240-73120-10	20161208UAW15-20V19N	Total Recoverable	Water	3005A	
240-73120-11	20161208UAW11-10V12N	Total Recoverable	Water	3005A	
MB 240-259025/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-259025/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-73120-9 MS	20161208UAW26-70V72N	Total Recoverable	Water	3005A	
240-73120-9 MSD	20161208UAW26-70V72N	Total Recoverable	Water	3005A	

Prep Batch: 259028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73120-1	20161207UAW02-20V15N	Total/NA	Water	7470A	
240-73120-2	20161207UAW04-20V16N	Total/NA	Water	7470A	
240-73120-3	20161208MW-EPA-4V19N	Total/NA	Water	7470A	
240-73120-4	20161208UAW15-50V42N	Total/NA	Water	7470A	
240-73120-5	20161208UAW11-40V39N	Total/NA	Water	7470A	
240-73120-6	20161207UAW02-40V41N	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 259028 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73120-7	20161207UAW02-40V41FD	Total/NA	Water	7470A	
240-73120-8	20161207UAW03-20V15N	Total/NA	Water	7470A	
240-73120-9	20161208UAW26-70V72N	Total/NA	Water	7470A	
240-73120-10	20161208UAW15-20V19N	Total/NA	Water	7470A	
240-73120-11	20161208UAW11-10V12N	Total/NA	Water	7470A	
MB 240-259028/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-259028/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-73120-9 MS	20161208UAW26-70V72N	Total/NA	Water	7470A	
240-73120-9 MSD	20161208UAW26-70V72N	Total/NA	Water	7470A	

Analysis Batch: 259334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73120-1	20161207UAW02-20V15N	Total/NA	Water	7470A	259028
240-73120-2	20161207UAW04-20V16N	Total/NA	Water	7470A	259028
240-73120-3	20161208MW-EPA-4V19N	Total/NA	Water	7470A	259028
240-73120-4	20161208UAW15-50V42N	Total/NA	Water	7470A	259028
240-73120-5	20161208UAW11-40V39N	Total/NA	Water	7470A	259028
240-73120-6	20161207UAW02-40V41N	Total/NA	Water	7470A	259028
240-73120-7	20161207UAW02-40V41FD	Total/NA	Water	7470A	259028
240-73120-8	20161207UAW03-20V15N	Total/NA	Water	7470A	259028
240-73120-9	20161208UAW26-70V72N	Total/NA	Water	7470A	259028
240-73120-10	20161208UAW15-20V19N	Total/NA	Water	7470A	259028
240-73120-11	20161208UAW11-10V12N	Total/NA	Water	7470A	259028
MB 240-259028/1-A	Method Blank	Total/NA	Water	7470A	259028
LCS 240-259028/2-A	Lab Control Sample	Total/NA	Water	7470A	259028
240-73120-9 MS	20161208UAW26-70V72N	Total/NA	Water	7470A	259028
240-73120-9 MSD	20161208UAW26-70V72N	Total/NA	Water	7470A	259028

Analysis Batch: 259348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73120-1	20161207UAW02-20V15N	Total Recoverable	Water	6010B	259025
240-73120-2	20161207UAW04-20V16N	Total Recoverable	Water	6010B	259025
240-73120-3	20161208MW-EPA-4V19N	Total Recoverable	Water	6010B	259025
240-73120-4	20161208UAW15-50V42N	Total Recoverable	Water	6010B	259025
240-73120-5	20161208UAW11-40V39N	Total Recoverable	Water	6010B	259025
240-73120-6	20161207UAW02-40V41N	Total Recoverable	Water	6010B	259025
240-73120-7	20161207UAW02-40V41FD	Total Recoverable	Water	6010B	259025
240-73120-8	20161207UAW03-20V15N	Total Recoverable	Water	6010B	259025
240-73120-9	20161208UAW26-70V72N	Total Recoverable	Water	6010B	259025
240-73120-10	20161208UAW15-20V19N	Total Recoverable	Water	6010B	259025
240-73120-11	20161208UAW11-10V12N	Total Recoverable	Water	6010B	259025
MB 240-259025/1-A	Method Blank	Total Recoverable	Water	6010B	259025
LCS 240-259025/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259025
240-73120-9 MS	20161208UAW26-70V72N	Total Recoverable	Water	6010B	259025
240-73120-9 MSD	20161208UAW26-70V72N	Total Recoverable	Water	6010B	259025

Lab Chronicle

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161207UAW02-20V15N — Lab Sample ID: 240-73120-1

Date Collected: 12/07/16 12:40 — **Matrix: Water**
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259893	12/17/16 11:31	LEE	TAL CAN
Total/NA	Prep	3510C			259058	12/13/16 08:16	KEH	TAL CAN
Total/NA	Analysis	8270C		1	259340	12/14/16 13:38	TMH	TAL CAN
Total Recoverable	Prep	3005A			259025	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/13/16 23:15	KLC	TAL CAN
Total/NA	Prep	7470A			259028	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 12:42	WKD	TAL CAN

Client Sample ID: 20161207UAW04-20V16N — Lab Sample ID: 240-73120-2

Date Collected: 12/07/16 15:13 — **Matrix: Water**
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259893	12/17/16 11:54	LEE	TAL CAN
Total/NA	Prep	3510C			259058	12/13/16 08:16	KEH	TAL CAN
Total/NA	Analysis	8270C		1	259340	12/14/16 14:02	TMH	TAL CAN
Total Recoverable	Prep	3005A			259025	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/13/16 23:27	KLC	TAL CAN
Total/NA	Prep	7470A			259028	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 12:48	WKD	TAL CAN

Client Sample ID: 20161208MW-EPA-4V19N — Lab Sample ID: 240-73120-3

Date Collected: 12/08/16 09:48 — **Matrix: Water**
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259893	12/17/16 12:16	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		1	260366	12/21/16 10:14	TMH	TAL CAN
Total Recoverable	Prep	3005A			259025	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/13/16 23:32	KLC	TAL CAN
Total/NA	Prep	7470A			259028	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 12:50	WKD	TAL CAN

Client Sample ID: 20161208UAW15-50V42N — Lab Sample ID: 240-73120-4

Date Collected: 12/08/16 11:55 — **Matrix: Water**
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259893	12/17/16 12:39	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		1	260366	12/21/16 10:38	TMH	TAL CAN

Client Sample ID: 20161208UAW15-50V42N — Lab Sample ID: 240-73120-4

Date Collected: 12/08/16 11:55 — **Matrix: Water**
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			259025	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/13/16 23:36	KLC	TAL CAN
Total/NA	Prep	7470A			259028	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 12:52	WKD	TAL CAN

Client Sample ID: 20161208UAW11-40V39N — Lab Sample ID: 240-73120-5

Date Collected: 12/08/16 14:10 — **Matrix: Water**
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259893	12/17/16 13:01	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		1	260366	12/21/16 11:03	TMH	TAL CAN
Total Recoverable	Prep	3005A			259025	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/13/16 23:40	KLC	TAL CAN
Total/NA	Prep	7470A			259028	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 12:54	WKD	TAL CAN

Client Sample ID: 20161207UAW02-40V41N — Lab Sample ID: 240-73120-6

Date Collected: 12/07/16 12:30 — **Matrix: Water**
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259893	12/17/16 13:24	LEE	TAL CAN
Total/NA	Prep	3510C			259058	12/13/16 08:16	KEH	TAL CAN
Total/NA	Analysis	8270C		1	259340	12/14/16 14:27	TMH	TAL CAN
Total Recoverable	Prep	3005A			259025	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/13/16 23:45	KLC	TAL CAN
Total/NA	Prep	7470A			259028	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 12:56	WKD	TAL CAN

Client Sample ID: 20161207UAW02-40V41FD — Lab Sample ID: 240-73120-7

Date Collected: 12/07/16 12:30 — **Matrix: Water**
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259893	12/17/16 13:46	LEE	TAL CAN
Total/NA	Prep	3510C			259058	12/13/16 08:16	KEH	TAL CAN
Total/NA	Analysis	8270C		1	259340	12/14/16 14:51	TMH	TAL CAN
Total Recoverable	Prep	3005A			259025	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/13/16 23:49	KLC	TAL CAN
Total/NA	Prep	7470A			259028	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 12:58	WKD	TAL CAN

Client Sample ID: 20161207UAW03-20V15N — Lab Sample ID: 240-73120-8

Date Collected: 12/07/16 14:45 — **Matrix: Water**
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259893	12/17/16 14:09	LEE	TAL CAN
Total/NA	Prep	3510C			259058	12/13/16 08:16	KEH	TAL CAN
Total/NA	Analysis	8270C		1	259340	12/14/16 15:16	TMH	TAL CAN
Total Recoverable	Prep	3005A			259025	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/13/16 23:53	KLC	TAL CAN
Total/NA	Prep	7470A			259028	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 13:00	WKD	TAL CAN

Client Sample ID: 20161208UAW26-70V72N — Lab Sample ID: 240-73120-9

Date Collected: 12/08/16 10:00 — **Matrix: Water**
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259893	12/17/16 14:32	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		1	260366	12/21/16 11:27	TMH	TAL CAN
Total Recoverable	Prep	3005A			259025	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/13/16 22:15	KLC	TAL CAN
Total/NA	Prep	7470A			259028	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 12:17	WKD	TAL CAN

Client Sample ID: 20161208UAW15-20V19N — Lab Sample ID: 240-73120-10

Date Collected: 12/08/16 12:50 — **Matrix: Water**
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259893	12/17/16 14:54	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		1	260366	12/21/16 12:41	TMH	TAL CAN
Total Recoverable	Prep	3005A			259025	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/13/16 23:57	KLC	TAL CAN
Total/NA	Prep	7470A			259028	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 13:02	WKD	TAL CAN

Client Sample ID: 20161208UAW11-10V12N — Lab Sample ID: 240-73120-11

Date Collected: 12/08/16 14:40 — **Matrix: Water**
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259893	12/17/16 15:16	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		1	260366	12/21/16 13:05	TMH	TAL CAN
Total Recoverable	Prep	3005A			259025	12/12/16 14:00	WKD	TAL CAN

Lab Chronicle

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Client Sample ID: 20161208UAW11-10V12N

Lab Sample ID: 240-73120-11

Date Collected: 12/08/16 14:40
Matrix: Water
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6010B		1	259348	12/14/16 00:02	KLC	TAL CAN
Total/NA	Prep	7470A			259028	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 13:04	WKD	TAL CAN

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-73120-12

Date Collected: 12/08/16 00:00
Matrix: Water
Date Received: 12/09/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259893	12/17/16 15:39	LEE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Parsons Corporation
Project/Site: R&H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73120-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17
Illinois	NELAP	5	200004	07-31-17
Kansas	NELAP	7	E-10336	01-31-17 *
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16 *
Minnesota	NELAP	5	039-999-348	12-31-16 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17
Nevada	State Program	9	OH-000482008A	07-31-17
New Jersey	NELAP	2	OH001	06-30-17
New York	NELAP	2	10975	03-31-17
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17
Pennsylvania	NELAP	3	68-00340	08-31-17
Texas	NELAP	6	T104704517-15-5	08-31-17
USDA	Federal		P330-13-00319	11-26-16 *
Virginia	NELAP	3	460175	09-14-17
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16 *
Wisconsin	State Program	5	999518190	08-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

CINCINNATI

Chain of Custody Record

0.4/0.4
0.8/0.8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

210501

Client Information	Sampler: JIM SHAW	Lab PM: O'Meara, Patrick J	Carrier Tracking No(s):	COC No: 240-39036-17141.6
Client Contact: Jim Shaw	Phone: 513.368.4541	E-Mail: patrick.omeara@testamericainc.com		Page: Page 6 of 10
Company: Parsons Corporation				Job #:
Address: 2443 Crowne Point Drive	Due Date Requested:			
City: Cincinnati	TAT Requested (days): STANDARD			
State, Zip: OH, 45241				
Phone: 513-317-2984(Tel)	PO #: 4500814287			
Email: Jim.Shaw@parsons.com	WO #:			
Project Name: R & H Cincinnati - GW Sampling	Project #: 24009047			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

240-73120 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	6010B, 7470A	8270C - BNAs TCL / APP-IX /Aniline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N		
~~20161205UAW09-20V24N~~	12/5/16	1345	G	Water	N	N	X	X	X		
20161207UAW03-20V15N	12.07.16	1240	G	Water	N	N	X	X	X		
20161207UAW04-20V16N	12.07.16	1513	G	Water	N	N	X	X	X		
20161208MW-EPA-4V19N	12.08.16	0948	G	Water	N	N	X	X	X		
20161208UAW15-50V42N	12.08.16	1155	G	Water	N	N	X	X	X		
20161208UAW11-40V39N	12.08.16	1410	G	Water	N	N	X	X	X		
20161207UAW02-40V41N	12/7/16	1230	G	Water	N	N	X	X	X		
20161207UAW02-40V41FD	12/7/16	1230	G	Water	N	N	X	X	X		
20161207UAW03-20V15N	12/7/16	1445	G	Water	N	N	X	X	X		
20161208UAW26-70V72N	2/8/16	1000	G	Water	N	N	X	X	X		
20161208UAW26-70V72MS	2/8/16	1000	G	Water	N	N	X	X	X		MS/MSD FOR ↑

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		12/8/16 1540	PARSONS		12/8/16 1540	TAL
2		12/8/16 1544			12/09/16 800	TAL
3						

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

12/22/2016

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

CINCINNATI
210501

Chain of Custody Record

0.4/0.4
0.8/0.8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: O'Meara, Patrick J	Carrier Tracking No(s):	COC No: 240-39036-17141.4
Client Contact: Jim Shaw	Phone:	E-Mail: patrick.omeara@testamericainc.com		Page: Page 4 of 10
Company: Parsons Corporation				Job #:
Address: 2443 Crowne Point Drive	Due Date Requested:			
City: Cincinnati	TAT Requested (days): STANDARD			
State, Zip: OH, 45241				
Phone: 513-317-2984(Tel)	PO #: 4500814287			
Email: Jim.Shaw@parsons.com	WO #:			
Project Name: R & H Cincinnati - GW Sampling	Project #: 24009047			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	6010B, 7470A	8270C - BNAs TCL / APP-IX /Aniline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N		
20161208UAW26-70V72 MSD	12/8/16	1000	G	Water	N	N	X	X	X		MSD FOR 20161208UAW26-70V72N
20161208UAW15-20V19 N	12/8/16	1250	G	Water	N	N	X	X	X		
20161208UAW11-10V12 N	12/8/16	1440	G	Water	N	N	X	X	X		
TRIP BLANK	LAB	LAB	G	Water	N	N	X				
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		12/8/16 1540	PARSONS		12/8/16 1540	
2		12/8/16 1544	TAI		12/09/16 800	TAC
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

12/22/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 73120**

Canton Facility

Client Parsons Corporation Site Name _____ Cooler unpacked by: DSD

Cooler Received on 12/09/16 Opened on 12/09/16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other private

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☒ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp._____ °C Corrected Cooler Temp._____ °C
   IR GUN #36 (CF +1.1°C) Observed Cooler Temp._____ °C Corrected Cooler Temp._____ °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 each	Yes	No
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 11-15 have been checked at the originating laboratory.		
11. Were sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC682547
12. Were VOAs on the COC?	Yes	No
13. Were air bubbles >6 mm in any VOA vials?	Yes	No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
15. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

Received 1 250 mL amber for Sample 20VISN empty.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica Multiple Cooler Receipt Form/Narrative
Canton Facility

Login # : 73120

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Client	8	0.4	0.4	Ice
↓	↓	0.8	0.8	↓

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
20161207UAW02-20V15N	240-73120-F-1	Plastic 500ml - with Nitric Acid	<2		
20161207UAW04-20V16N	240-73120-F-2	Plastic 500ml - with Nitric Acid	<2		
20161208MW-EPA-4V19N	240-73120-F-3	Plastic 500ml - with Nitric Acid	<2		
20161208UAW15-50V42N	240-73120-F-4	Plastic 500ml - with Nitric Acid	<2		
20161208UAW11-40V39N	240-73120-F-5	Plastic 500ml - with Nitric Acid	<2		
20161207UAW02-40V41N	240-73120-F-6	Plastic 500ml - with Nitric Acid	<2		
20161207UAW02-40V41FD	240-73120-F-7	Plastic 500ml - with Nitric Acid	<2		
20161207UAW03-20V15N	240-73120-F-8	Plastic 500ml - with Nitric Acid	<2		
20161208UAW26-70V72N	240-73120-O-9	Plastic 500ml - with Nitric Acid	<2		
20161208UAW26-70V72N	240-73120-P-9	Plastic 500ml - with Nitric Acid	<2		
20161208UAW26-70V72N	240-73120-Q-9	Plastic 500ml - with Nitric Acid	<2		
20161208UAW15-20V19N	240-73120-F-10	Plastic 500ml - with Nitric Acid	<2		
20161208UAW11-10V12N	240-73120-F-11	Plastic 500ml - with Nitric Acid	<2		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-73181-1
Client Project/Site: R & H Cincinnati - GW Sampling

For:
Parsons Corporation
2443 Crowne Point Drive
Cincinnati, Ohio 45241

Attn: Karen Fields

Kris Brooks

Authorized for release by:
12/23/2016 5:00:06 PM
Kris Brooks, Project Manager II
(330)966-9790
kris.brooks@testamericainc.com

Designee for

Patrick O'Meara, Manager of Project Management
(330)966-5725
patrick.omeara@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

RELEASED
DATE 6-28-17
RIN 2017-007322
INITIALS AT

CASE NARRATIVE

Client: Parsons Corporation

Project: R & H Cincinnati - GW Sampling

Report Number: 240-73181-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/10/2016 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.4° C and 3.0° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 20161208UAW16-10V13N (240-73181-1), 20161208UAW16-10V13FD (240-73181-2), 20161209UAW13-20V14N (240-73181-3), 20161209UAW08-20V15N (240-73181-4), 20161209UAW07-20V15N (240-73181-5), 20161209UAW12-20V14N (240-73181-6), 20161209UAW05-20V14N (240-73181-7), 20161209UAW06-20V16N (240-73181-8) and TRIP BLANK (240-73181-9) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/20/2016, 12/21/2016 and 12/22/2016.

Methylene Chloride was detected in method blank MB 240-260221/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Methylene Chloride was detected in method blank MB 240-260435/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Methylene Chloride was detected in method blank MB 240-260596/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Job ID: 240-73181-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Refer to the QC report for details.

Dibromofluoromethane (Surr) failed the surrogate recovery criteria high for 20161209UAW07-20V15N (240-73181-5). Refer to the QC report for details.

Carbon tetrachloride failed the recovery criteria high for LCS 240-260435/4. Refer to the QC report for details.

Acetone and Chloroethane exceeded the RPD limit for the MSD of sample 240-73191-22 in batch 240-260221. For the MSD of sample 240-73468-1 in batch 240-260435, Acetone failed the recovery criteria low. Carbon tetrachloride failed the recovery criteria high. Also, Several analytes exceeded the RPD limit. Refer to the QC report for details.

Samples 20161209UAW13-20V14N (240-73181-3)[10X], 20161209UAW08-20V15N (240-73181-4)[16.67X], 20161209UAW07-20V15N (240-73181-5)[5X], 20161209UAW07-20V15N (240-73181-5)[50X], 20161209UAW12-20V14N (240-73181-6)[14.29X], 20161209UAW05-20V14N (240-73181-7)[2X], 20161209UAW05-20V14N (240-73181-7)[20X] and 20161209UAW06-20V16N (240-73181-8)[3.33X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following volatiles samples was diluted due to foaming at the time of purging during the original sample analysis: 20161209UAW13-20V14N (240-73181-3), 20161209UAW08-20V15N (240-73181-4) and 20161209UAW12-20V14N (240-73181-6). Elevated reporting limits (RLs) are provided. No further analysis is done.

The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was greater than 2 and the following sample was analyzed after 7 days from sampling: 20161209UAW08-20V15N (240-73181-4).

Surrogate recovery for the reanalysis for the following sample was outside of acceptance limits: 20161209UAW07-20V15N (240-73181-5). There was insufficient sample to perform a re-analysis; therefore, the data have been reported. Chlorobenzene was the only analyte reported from this analysis.

The laboratory control sample (LCS) for 260435 recovered outside control limits for the following analytes: Carbon Tetrachloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.20161209UAW07-20V15N (240-73181-5), 20161209UAW05-20V14N (240-73181-7) and (LCS 240-260435/4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 20161208UAW16-10V13N (240-73181-1), 20161208UAW16-10V13FD (240-73181-2), 20161209UAW13-20V14N (240-73181-3), 20161209UAW08-20V15N (240-73181-4), 20161209UAW07-20V15N (240-73181-5), 20161209UAW12-20V14N (240-73181-6), 20161209UAW05-20V14N (240-73181-7) and 20161209UAW06-20V16N (240-73181-8) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/15/2016 and analyzed on 12/21/2016 and 12/22/2016.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Di-n-butyl phthalate was detected in method blank MB 240-259604/17-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

3-Nitroaniline and Caprolactam exceeded the RPD limit for LCSD 240-259604/19-A. Refer to the QC report for details.

Benzaldehyde exceeded the RPD limit for the MSD of sample 240-73120-9 in batch 240-260366. Refer to the QC report for details.

Samples 20161209UAW13-20V14N (240-73181-3)[4X], 20161209UAW08-20V15N (240-73181-4)[10X] and 20161209UAW07-20V15N (240-73181-5)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Job ID: 240-73181-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for prep batch 259604 recovered outside control limits for the following analytes: 3-Nitroaniline. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The LCS/LCSD associated with prep batch 259604 had high RPD's for the analyte Caprolactam. Since the recoveries for both the LCS and the LCSD were within control limits, no corrective action was taken.
20161208UAW16-10V13N (240-73181-1), 20161208UAW16-10V13FD (240-73181-2), 20161209UAW12-20V14N (240-73181-6), 20161209UAW05-20V14N (240-73181-7), 20161209UAW06-20V16N (240-73181-8), (240-73120-M-9-A), (240-73120-L-9-A MS) and (240-73120-N-9-A MSD)

The following samples was diluted due to the nature of the sample matrix: 20161209UAW13-20V14N (240-73181-3), 20161209UAW08-20V15N (240-73181-4) and 20161209UAW07-20V15N (240-73181-5). Elevated reporting limits (RLs) are provided.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for prep batch 259604 recovered outside control limits for the following analytes: 3-Nitroaniline. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

The RPD's for LCS/LCSD for Caprolactam in prep batch 259604 were out high. Since the recoveries for both were within range, no corrective action was taken
20161209UAW13-20V14N (240-73181-3), 20161209UAW08-20V15N (240-73181-4) and 20161209UAW07-20V15N (240-73181-5)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICP)

Samples 20161208UAW16-10V13N (240-73181-1), 20161208UAW16-10V13FD (240-73181-2), 20161209UAW13-20V14N (240-73181-3), 20161209UAW08-20V15N (240-73181-4), 20161209UAW07-20V15N (240-73181-5), 20161209UAW12-20V14N (240-73181-6), 20161209UAW05-20V14N (240-73181-7) and 20161209UAW06-20V16N (240-73181-8) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/12/2016 and analyzed on 12/14/2016.

Potassium and Sodium were detected in method blank MB 240-259017/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Samples 20161209UAW08-20V15N (240-73181-4)[5X] and 20161209UAW05-20V14N (240-73181-7)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The continuing calibration verification (CCV) associated with batch 240-259449 recovered above the upper control limit for Beryllium. The samples associated with this CCV were below the requested reporting limit for the affected analytes; therefore, the data have been reported. The following samples are impacted: 20161208UAW16-10V13N (240-73181-1), 20161208UAW16-10V13FD (240-73181-2), 20161209UAW13-20V14N (240-73181-3), 20161209UAW08-20V15N (240-73181-4), 20161209UAW07-20V15N (240-73181-5), 20161209UAW12-20V14N (240-73181-6), 20161209UAW05-20V14N (240-73181-7) and 20161209UAW06-20V16N (240-73181-8).

The following sample was diluted due to the nature of the sample matrix: 20161209UAW08-20V15N (240-73181-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples 20161208UAW16-10V13N (240-73181-1), 20161208UAW16-10V13FD (240-73181-2), 20161209UAW13-20V14N (240-73181-3), 20161209UAW08-20V15N (240-73181-4), 20161209UAW07-20V15N (240-73181-5), 20161209UAW12-20V14N (240-73181-6), 20161209UAW05-20V14N (240-73181-7) and 20161209UAW06-20V16N (240-73181-8) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/12/2016 and analyzed on 12/13/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 240-73181-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Method Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-73181-1	20161208UAW16-10V13N	Water	12/08/16 15:55	12/10/16 08:00
240-73181-2	20161208UAW16-10V13FD	Water	12/08/16 16:00	12/10/16 08:00
240-73181-3	20161209UAW13-20V14N	Water	12/09/16 09:55	12/10/16 08:00
240-73181-4	20161209UAW08-20V15N	Water	12/09/16 11:50	12/10/16 08:00
240-73181-5	20161209UAW07-20V15N	Water	12/09/16 14:30	12/10/16 08:00
240-73181-6	20161209UAW12-20V14N	Water	12/09/16 10:10	12/10/16 08:00
240-73181-7	20161209UAW05-20V14N	Water	12/09/16 12:30	12/10/16 08:00
240-73181-8	20161209UAW06-20V16N	Water	12/09/16 14:30	12/10/16 08:00
240-73181-9	TRIP BLANK	Water	12/09/16 00:00	12/10/16 08:00

Detection Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: 20161208UAW16-10V13N — Lab Sample ID: 240-73181-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	35		10	1.8	ug/L	1		8260B	Total/NA
Benzene	0.29	J	1.0	0.28	ug/L	1		8260B	Total/NA
Chlorobenzene	3.2		1.0	0.32	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	6.9		1.0	0.26	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	3.3		1.0	0.23	ug/L	1		8260B	Total/NA
Di-n-butyl phthalate	0.48	J B	1.0	0.40	ug/L	1		8270C	Total/NA
Phenol	2.5		1.0	0.15	ug/L	1		8270C	Total/NA
Aluminum	100	J	200	40	ug/L	1		6010B	Total Recoverable
Barium	45	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	180000		5000	710	ug/L	1		6010B	Total Recoverable
Cobalt	0.94	J	7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	3.2	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	1400		100	25	ug/L	1		6010B	Total Recoverable
Potassium	6800	B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	33000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	980		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	300000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	9.7	J	40	1.6	ug/L	1		6010B	Total Recoverable
Zinc	22	J	50	16	ug/L	1		6010B	Total Recoverable
Arsenic	4.2	J	10	3.3	ug/L	1		6010B	Total Recoverable
Lead	3.5	J	5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	1100		100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161208UAW16-10V13FD — Lab Sample ID: 240-73181-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	29		10	1.8	ug/L	1		8260B	Total/NA
Benzene	0.28	J	1.0	0.28	ug/L	1		8260B	Total/NA
Carbon disulfide	0.42	J	1.0	0.34	ug/L	1		8260B	Total/NA
Chlorobenzene	3.1		1.0	0.32	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	6.6		1.0	0.26	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	3.2		1.0	0.23	ug/L	1		8260B	Total/NA
Aniline	0.81	J	4.8	0.21	ug/L	1		8270C	Total/NA
Phenol	1.6		0.96	0.14	ug/L	1		8270C	Total/NA
Aluminum	85	J	200	40	ug/L	1		6010B	Total Recoverable
Barium	44	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	170000		5000	710	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: 20161208UAW16-10V13FD (Continued) — Lab Sample ID: 240-73181-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.94	J	7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	2.7	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	3.9	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	1300		100	25	ug/L	1		6010B	Total Recoverable
Potassium	6500	B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	31000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	910		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	270000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	8.2	J	40	1.6	ug/L	1		6010B	Total Recoverable
Zinc	19	J	50	16	ug/L	1		6010B	Total Recoverable
Lead	2.9	J	5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	860		100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161209UAW13-20V14N — Lab Sample ID: 240-73181-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.8	J	10	2.8	ug/L	10		8260B	Total/NA
Carbon disulfide	32		10	3.4	ug/L	10		8260B	Total/NA
Chlorobenzene	64		10	3.2	ug/L	10		8260B	Total/NA
1,2-Dichlorobenzene	320		10	2.6	ug/L	10		8260B	Total/NA
1,4-Dichlorobenzene	36		10	2.3	ug/L	10		8260B	Total/NA
Ethylbenzene	19		10	2.6	ug/L	10		8260B	Total/NA
Methylene Chloride	16	B	10	5.3	ug/L	10		8260B	Total/NA
Toluene	9.3	J	10	2.3	ug/L	10		8260B	Total/NA
Xylenes, Total	28		20	2.4	ug/L	10		8260B	Total/NA
Aniline	9.8	J	20	0.87	ug/L	4		8270C	Total/NA
Aluminum	140	J	200	40	ug/L	1		6010B	Total Recoverable
Barium	5.2	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	750000		5000	710	ug/L	1		6010B	Total Recoverable
Cadmium	0.35	J	2.0	0.29	ug/L	1		6010B	Total Recoverable
Chromium	570		5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	5.3	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	1800		100	25	ug/L	1		6010B	Total Recoverable
Potassium	4800	J B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	56000		5000	230	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161209UAW13-20V14N (Continued) — Lab Sample ID: 240-73181-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2700		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	460000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	27	J	40	1.6	ug/L	1		6010B	Total Recoverable
Zinc	18	J	50	16	ug/L	1		6010B	Total Recoverable
Arsenic	15		10	3.3	ug/L	1		6010B	Total Recoverable
Lead	11		5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	1300		100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161209UAW08-20V15N — Lab Sample ID: 240-73181-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	120	H	17	4.7	ug/L	16.67		8260B	Total/NA
Carbon disulfide	250	H	17	5.7	ug/L	16.67		8260B	Total/NA
Chlorobenzene	140	H	17	5.3	ug/L	16.67		8260B	Total/NA
1,2-Dichlorobenzene	490	H	17	4.3	ug/L	16.67		8260B	Total/NA
1,3-Dichlorobenzene	9.0	J H	17	5.3	ug/L	16.67		8260B	Total/NA
1,4-Dichlorobenzene	55	H	17	3.8	ug/L	16.67		8260B	Total/NA
Ethylbenzene	76	H	17	4.3	ug/L	16.67		8260B	Total/NA
Methylcyclohexane	45	H	17	7.5	ug/L	16.67		8260B	Total/NA
Methylene Chloride	19	B H	17	8.8	ug/L	16.67		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	24	J H	170	12	ug/L	16.67		8260B	Total/NA
Toluene	51	H	17	3.8	ug/L	16.67		8260B	Total/NA
Xylenes, Total	220	H	33	4.0	ug/L	16.67		8260B	Total/NA
Aniline	180		50	2.2	ug/L	10		8270C	Total/NA
1,1'-Biphenyl	8.0	J	10	1.2	ug/L	10		8270C	Total/NA
Barium	75	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	1000000		25000	3600	ug/L	5		6010B	Total Recoverable
Cadmium	0.88	J	2.0	0.29	ug/L	1		6010B	Total Recoverable
Cobalt	1.9	J	7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	23		5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	56	J	100	25	ug/L	1		6010B	Total Recoverable
Potassium	14000	B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	120000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	400		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	780000	B	25000	1700	ug/L	5		6010B	Total Recoverable
Nickel	12	J	40	1.6	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161209UAW08-20V15N (Continued) — Lab Sample ID: 240-73181-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	30		10	3.3	ug/L	1		6010B	Total Recoverable
Lead	10		5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	4500		100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161209UAW07-20V15N — Lab Sample ID: 240-73181-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.4	J	5.0	1.4	ug/L	5		8260B	Total/NA
Carbon disulfide	78		5.0	1.7	ug/L	5		8260B	Total/NA
Chlorobenzene	390		50	16	ug/L	50		8260B	Total/NA
1,2-Dichlorobenzene	170		5.0	1.3	ug/L	5		8260B	Total/NA
1,3-Dichlorobenzene	5.3		5.0	1.6	ug/L	5		8260B	Total/NA
1,4-Dichlorobenzene	38		5.0	1.2	ug/L	5		8260B	Total/NA
Isopropylbenzene	1.3	J	5.0	1.1	ug/L	5		8260B	Total/NA
Methylene Chloride	6.2	B	5.0	2.7	ug/L	5		8260B	Total/NA
Xylenes, Total	1.3	J	10	1.2	ug/L	5		8260B	Total/NA
Aniline	2.9	J	19	0.83	ug/L	4		8270C	Total/NA
Aluminum	57	J	200	40	ug/L	1		6010B	Total Recoverable
Barium	40	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	270000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	3.1	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	100		100	25	ug/L	1		6010B	Total Recoverable
Potassium	6300	B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	34000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	1100		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	310000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	2.9	J	40	1.6	ug/L	1		6010B	Total Recoverable
Lead	3.8	J	5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	300		100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161209UAW12-20V14N — Lab Sample ID: 240-73181-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	150		14	4.9	ug/L	14.29		8260B	Total/NA
Chlorobenzene	340		14	4.6	ug/L	14.29		8260B	Total/NA
1,2-Dichlorobenzene	400		14	3.7	ug/L	14.29		8260B	Total/NA
1,3-Dichlorobenzene	37		14	4.6	ug/L	14.29		8260B	Total/NA
1,4-Dichlorobenzene	110		14	3.3	ug/L	14.29		8260B	Total/NA
Methylene Chloride	19	B	14	7.6	ug/L	14.29		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161209UAW12-20V14N (Continued) — Lab Sample ID: 240-73181-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aniline	1.5	J	5.4	0.24	ug/L	1		8270C	Total/NA
Caprolactam	4.8	J *	5.4	0.40	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	0.68	J B	1.1	0.43	ug/L	1		8270C	Total/NA
Barium	44	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	590000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	19		5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	240		100	25	ug/L	1		6010B	Total Recoverable
Potassium	7400	B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	38000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	2900		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	320000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	7.7	J	40	1.6	ug/L	1		6010B	Total Recoverable
Arsenic	6.3	J	10	3.3	ug/L	1		6010B	Total Recoverable
Lead	7.1		5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	450		100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161209UAW05-20V14N — Lab Sample ID: 240-73181-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16	J	20	3.5	ug/L	2		8260B	Total/NA
Benzene	9.5		2.0	0.56	ug/L	2		8260B	Total/NA
Carbon disulfide	3.3		2.0	0.68	ug/L	2		8260B	Total/NA
Chlorobenzene	570		20	6.4	ug/L	20		8260B	Total/NA
Cyclohexane	1.2	J	2.0	0.88	ug/L	2		8260B	Total/NA
1,2-Dichlorobenzene	410		20	5.2	ug/L	20		8260B	Total/NA
1,3-Dichlorobenzene	16		2.0	0.64	ug/L	2		8260B	Total/NA
1,4-Dichlorobenzene	110		20	4.6	ug/L	20		8260B	Total/NA
Ethylbenzene	11		2.0	0.52	ug/L	2		8260B	Total/NA
Isopropylbenzene	0.92	J	2.0	0.42	ug/L	2		8260B	Total/NA
Methylcyclohexane	4.0		2.0	0.90	ug/L	2		8260B	Total/NA
Methylene Chloride	2.0	B	2.0	1.1	ug/L	2		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	5.9	J	20	1.4	ug/L	2		8260B	Total/NA
Toluene	4.9		2.0	0.46	ug/L	2		8260B	Total/NA
Xylenes, Total	19		4.0	0.48	ug/L	2		8260B	Total/NA
Aniline	16		5.2	0.23	ug/L	1		8270C	Total/NA
Benzaldehyde	9.2		2.1	0.31	ug/L	1		8270C	Total/NA
2-Chlorophenol	3.0		1.0	0.14	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	0.53	J B	1.0	0.41	ug/L	1		8270C	Total/NA
Phenol	2.4		1.0	0.16	ug/L	1		8270C	Total/NA
Aluminum	130	J	200	40	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161209UAW05-20V14N (Continued) — Lab Sample ID: 240-73181-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	80	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	220000		5000	710	ug/L	1		6010B	Total Recoverable
Cobalt	6.3	J	7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	4500		5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	14000		100	25	ug/L	1		6010B	Total Recoverable
Potassium	6400	B	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	71000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	430		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	580000	B	25000	1700	ug/L	5		6010B	Total Recoverable
Nickel	630		40	1.6	ug/L	1		6010B	Total Recoverable
Vanadium	24		10	4.4	ug/L	1		6010B	Total Recoverable
Arsenic	15		10	3.3	ug/L	1		6010B	Total Recoverable
Lead	3.7	J	5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	2200		100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161209UAW06-20V16N — Lab Sample ID: 240-73181-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.60	J	1.0	0.28	ug/L	1		8260B	Total/NA
Chlorobenzene	84		3.3	1.1	ug/L	3.33		8260B	Total/NA
1,2-Dichlorobenzene	39		1.0	0.26	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	1.5		1.0	0.32	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	8.9		1.0	0.23	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	0.47	J	1.0	0.25	ug/L	1		8260B	Total/NA
Toluene	0.41	J	1.0	0.23	ug/L	1		8260B	Total/NA
Acenaphthene	0.28		0.20	0.044	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	0.48	J B	1.0	0.40	ug/L	1		8270C	Total/NA
Fluorene	0.32		0.20	0.034	ug/L	1		8270C	Total/NA
Phenol	0.57	J	1.0	0.15	ug/L	1		8270C	Total/NA
Aluminum	270		200	40	ug/L	1		6010B	Total Recoverable
Barium	76	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	180000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	3.0	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	720		100	25	ug/L	1		6010B	Total Recoverable
Potassium	4300	J B	5000	70	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161209UAW06-20V16N (Continued) — Lab Sample ID: 240-73181-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	32000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	950		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	370000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	5.1	J	40	1.6	ug/L	1		6010B	Total Recoverable
Vanadium	4.7	J	10	4.4	ug/L	1		6010B	Total Recoverable
Arsenic	3.6	J	10	3.3	ug/L	1		6010B	Total Recoverable
Lead	4.1	J	5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	400		100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-73181-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.36	J	1.0	0.32	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161208UAW16-10V13N
Date Collected: 12/08/16 15:55
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**35**		10	1.8	ug/L			12/20/16 18:08	1
Benzene	**0.29**	**J**	1.0	0.28	ug/L			12/20/16 18:08	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/20/16 18:08	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/20/16 18:08	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/20/16 18:08	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/20/16 18:08	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/20/16 18:08	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/20/16 18:08	1
Chlorobenzene	**3.2**		1.0	0.32	ug/L			12/20/16 18:08	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/20/16 18:08	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/20/16 18:08	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/20/16 18:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/20/16 18:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/20/16 18:08	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/20/16 18:08	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/20/16 18:08	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/20/16 18:08	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/20/16 18:08	1
1,2-Dichlorobenzene	**6.9**		1.0	0.26	ug/L			12/20/16 18:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/16 18:08	1
1,4-Dichlorobenzene	**3.3**		1.0	0.23	ug/L			12/20/16 18:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/16 18:08	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/20/16 18:08	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/20/16 18:08	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/20/16 18:08	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/20/16 18:08	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/20/16 18:08	1
2-Hexanone	10	U	10	1.2	ug/L			12/20/16 18:08	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/20/16 18:08	1
Methyl acetate	10	U	10	1.4	ug/L			12/20/16 18:08	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/20/16 18:08	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/20/16 18:08	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/20/16 18:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/20/16 18:08	1
Styrene	1.0	U	1.0	0.23	ug/L			12/20/16 18:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/20/16 18:08	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/20/16 18:08	1
Toluene	1.0	U	1.0	0.23	ug/L			12/20/16 18:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/20/16 18:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/20/16 18:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/20/16 18:08	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/20/16 18:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/20/16 18:08	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/20/16 18:08	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/20/16 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/20/16 18:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/20/16 18:08	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/20/16 18:08	1

Client Sample ID: 20161208UAW16-10V13N
Date Collected: 12/08/16 15:55
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*12/20/16 18:08*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*12/20/16 18:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 132*		*12/20/16 18:08*	*1*
Toluene-d8 (Surr)	*96*		*73 - 124*		*12/20/16 18:08*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/15/16 10:52	12/21/16 13:30	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/15/16 10:52	12/21/16 13:30	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/21/16 13:30	1
Aniline	5.0	U	5.0	0.22	ug/L		12/15/16 10:52	12/21/16 13:30	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/15/16 10:52	12/21/16 13:30	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/15/16 10:52	12/21/16 13:30	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/15/16 10:52	12/21/16 13:30	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/15/16 10:52	12/21/16 13:30	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/15/16 10:52	12/21/16 13:30	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/15/16 10:52	12/21/16 13:30	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/15/16 10:52	12/21/16 13:30	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/15/16 10:52	12/21/16 13:30	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/15/16 10:52	12/21/16 13:30	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 13:30	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/15/16 10:52	12/21/16 13:30	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/15/16 10:52	12/21/16 13:30	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/15/16 10:52	12/21/16 13:30	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/15/16 10:52	12/21/16 13:30	1
Caprolactam	5.0	U *	5.0	0.37	ug/L		12/15/16 10:52	12/21/16 13:30	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/21/16 13:30	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/15/16 10:52	12/21/16 13:30	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/15/16 10:52	12/21/16 13:30	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 13:30	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/21/16 13:30	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/15/16 10:52	12/21/16 13:30	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/15/16 10:52	12/21/16 13:30	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/15/16 10:52	12/21/16 13:30	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/15/16 10:52	12/21/16 13:30	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/15/16 10:52	12/21/16 13:30	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/21/16 13:30	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/15/16 10:52	12/21/16 13:30	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/15/16 10:52	12/21/16 13:30	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/21/16 13:30	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/15/16 10:52	12/21/16 13:30	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/15/16 10:52	12/21/16 13:30	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/15/16 10:52	12/21/16 13:30	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/15/16 10:52	12/21/16 13:30	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/15/16 10:52	12/21/16 13:30	1
Di-n-butyl phthalate	**0.48**	**J B**	1.0	0.40	ug/L		12/15/16 10:52	12/21/16 13:30	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/15/16 10:52	12/21/16 13:30	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/15/16 10:52	12/21/16 13:30	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/15/16 10:52	12/21/16 13:30	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 13:30	1

Client Sample ID: 20161208UAW16-10V13N
Date Collected: 12/08/16 15:55
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/21/16 13:30	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/15/16 10:52	12/21/16 13:30	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/15/16 10:52	12/21/16 13:30	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/15/16 10:52	12/21/16 13:30	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/15/16 10:52	12/21/16 13:30	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/15/16 10:52	12/21/16 13:30	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/15/16 10:52	12/21/16 13:30	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/15/16 10:52	12/21/16 13:30	1
3-Nitroaniline	2.0	U *	2.0	0.27	ug/L		12/15/16 10:52	12/21/16 13:30	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/15/16 10:52	12/21/16 13:30	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 13:30	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/15/16 10:52	12/21/16 13:30	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/15/16 10:52	12/21/16 13:30	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/21/16 13:30	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/15/16 10:52	12/21/16 13:30	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/15/16 10:52	12/21/16 13:30	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/15/16 10:52	12/21/16 13:30	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/15/16 10:52	12/21/16 13:30	1
Phenol	**2.5**		1.0	0.15	ug/L		12/15/16 10:52	12/21/16 13:30	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/15/16 10:52	12/21/16 13:30	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/15/16 10:52	12/21/16 13:30	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/15/16 10:52	12/21/16 13:30	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/15/16 10:52	12/21/16 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*44 - 120*	*12/15/16 10:52*	*12/21/16 13:30*	*1*
2-Fluorophenol (Surr)	*68*		*26 - 120*	*12/15/16 10:52*	*12/21/16 13:30*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*36 - 120*	*12/15/16 10:52*	*12/21/16 13:30*	*1*
Nitrobenzene-d5 (Surr)	*77*		*44 - 120*	*12/15/16 10:52*	*12/21/16 13:30*	*1*
Phenol-d5 (Surr)	*66*		*16 - 120*	*12/15/16 10:52*	*12/21/16 13:30*	*1*
Terphenyl-d14 (Surr)	*86*		*43 - 120*	*12/15/16 10:52*	*12/21/16 13:30*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**100**	**J**	200	40	ug/L		12/12/16 14:00	12/14/16 03:47	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/14/16 03:47	1
Barium	**45**	**J**	200	2.4	ug/L		12/12/16 14:00	12/14/16 03:47	1
Beryllium	5.0	U ^	5.0	0.21	ug/L		12/12/16 14:00	12/14/16 15:54	1
Calcium	**180000**		5000	710	ug/L		12/12/16 14:00	12/14/16 03:47	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/14/16 03:47	1
Cobalt	**0.94**	**J**	7.0	0.84	ug/L		12/12/16 14:00	12/14/16 03:47	1
Chromium	**3.2**	**J**	5.0	0.55	ug/L		12/12/16 14:00	12/14/16 03:47	1
Copper	25	U	25	3.9	ug/L		12/12/16 14:00	12/14/16 03:47	1
Iron	**1400**		100	25	ug/L		12/12/16 14:00	12/14/16 03:47	1
Potassium	**6800**	**B**	5000	70	ug/L		12/12/16 14:00	12/14/16 03:47	1
Magnesium	**33000**		5000	230	ug/L		12/12/16 14:00	12/14/16 03:47	1
Manganese	**980**		15	5.1	ug/L		12/12/16 14:00	12/14/16 03:47	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/14/16 03:47	1
Sodium	**300000**	**B**	5000	330	ug/L		12/12/16 14:00	12/14/16 03:47	1
Nickel	**9.7**	**J**	40	1.6	ug/L		12/12/16 14:00	12/14/16 03:47	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: 20161208UAW16-10V13N
Date Collected: 12/08/16 15:55
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-1
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/14/16 03:47	1
Zinc	**22**	**J**	50	16	ug/L		12/12/16 14:00	12/14/16 03:47	1
Arsenic	**4.2**	**J**	10	3.3	ug/L		12/12/16 14:00	12/14/16 03:47	1
Lead	**3.5**	**J**	5.0	1.9	ug/L		12/12/16 14:00	12/14/16 03:47	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/14/16 03:47	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/14/16 03:47	1
Tin	**1100**		100	1.8	ug/L		12/12/16 14:00	12/14/16 03:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 14:03	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: 20161208UAW16-10V13FD
Date Collected: 12/08/16 16:00
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**29**		10	1.8	ug/L			12/20/16 18:30	1
Benzene	**0.28**	**J**	1.0	0.28	ug/L			12/20/16 18:30	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/20/16 18:30	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/20/16 18:30	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/20/16 18:30	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/20/16 18:30	1
Carbon disulfide	**0.42**	**J**	1.0	0.34	ug/L			12/20/16 18:30	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/20/16 18:30	1
Chlorobenzene	**3.1**		1.0	0.32	ug/L			12/20/16 18:30	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/20/16 18:30	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/20/16 18:30	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/20/16 18:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/20/16 18:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/20/16 18:30	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/20/16 18:30	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/20/16 18:30	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/20/16 18:30	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/20/16 18:30	1
1,2-Dichlorobenzene	**6.6**		1.0	0.26	ug/L			12/20/16 18:30	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/16 18:30	1
1,4-Dichlorobenzene	**3.2**		1.0	0.23	ug/L			12/20/16 18:30	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/16 18:30	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/20/16 18:30	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/20/16 18:30	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/20/16 18:30	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/20/16 18:30	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/20/16 18:30	1
2-Hexanone	10	U	10	1.2	ug/L			12/20/16 18:30	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/20/16 18:30	1
Methyl acetate	10	U	10	1.4	ug/L			12/20/16 18:30	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/20/16 18:30	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/20/16 18:30	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/20/16 18:30	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/20/16 18:30	1
Styrene	1.0	U	1.0	0.23	ug/L			12/20/16 18:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/20/16 18:30	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/20/16 18:30	1
Toluene	1.0	U	1.0	0.23	ug/L			12/20/16 18:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/20/16 18:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/20/16 18:30	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/20/16 18:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/20/16 18:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/20/16 18:30	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/20/16 18:30	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/20/16 18:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/20/16 18:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/20/16 18:30	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/20/16 18:30	1

Client Sample ID: 20161208UAW16-10V13FD

Date Collected: 12/08/16 16:00
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*12/20/16 18:30*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*12/20/16 18:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 132*		*12/20/16 18:30*	*1*
Toluene-d8 (Surr)	*95*		*73 - 124*		*12/20/16 18:30*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.042	ug/L		12/15/16 10:52	12/21/16 13:54	1
Acenaphthylene	0.19	U	0.19	0.019	ug/L		12/15/16 10:52	12/21/16 13:54	1
Acetophenone	0.96	U	0.96	0.13	ug/L		12/15/16 10:52	12/21/16 13:54	1
Aniline	**0.81**	**J**	4.8	0.21	ug/L		12/15/16 10:52	12/21/16 13:54	1
Anthracene	0.19	U	0.19	0.030	ug/L		12/15/16 10:52	12/21/16 13:54	1
Atrazine	1.9	U	1.9	0.11	ug/L		12/15/16 10:52	12/21/16 13:54	1
Benzaldehyde	1.9	U	1.9	0.28	ug/L		12/15/16 10:52	12/21/16 13:54	1
Benzo[a]anthracene	0.19	U	0.19	0.057	ug/L		12/15/16 10:52	12/21/16 13:54	1
Benzo[b]fluoranthene	0.19	U	0.19	0.057	ug/L		12/15/16 10:52	12/21/16 13:54	1
Benzo[k]fluoranthene	0.19	U	0.19	0.046	ug/L		12/15/16 10:52	12/21/16 13:54	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.048	ug/L		12/15/16 10:52	12/21/16 13:54	1
Benzo[a]pyrene	0.19	U	0.19	0.029	ug/L		12/15/16 10:52	12/21/16 13:54	1
Butyl benzyl phthalate	0.96	U	0.96	0.21	ug/L		12/15/16 10:52	12/21/16 13:54	1
1,1'-Biphenyl	0.96	U	0.96	0.12	ug/L		12/15/16 10:52	12/21/16 13:54	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.036	ug/L		12/15/16 10:52	12/21/16 13:54	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.18	ug/L		12/15/16 10:52	12/21/16 13:54	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	1.5	ug/L		12/15/16 10:52	12/21/16 13:54	1
4-Bromophenyl phenyl ether	1.9	U	1.9	0.33	ug/L		12/15/16 10:52	12/21/16 13:54	1
Caprolactam	4.8	U *	4.8	0.36	ug/L		12/15/16 10:52	12/21/16 13:54	1
Carbazole	0.96	U	0.96	0.10	ug/L		12/15/16 10:52	12/21/16 13:54	1
4-Chloroaniline	1.9	U	1.9	0.14	ug/L		12/15/16 10:52	12/21/16 13:54	1
4-Chloro-3-methylphenol	1.9	U	1.9	0.27	ug/L		12/15/16 10:52	12/21/16 13:54	1
2-Chloronaphthalene	0.96	U	0.96	0.11	ug/L		12/15/16 10:52	12/21/16 13:54	1
2-Chlorophenol	0.96	U	0.96	0.13	ug/L		12/15/16 10:52	12/21/16 13:54	1
4-Chlorophenyl phenyl ether	1.9	U	1.9	0.28	ug/L		12/15/16 10:52	12/21/16 13:54	1
Chrysene	0.19	U	0.19	0.034	ug/L		12/15/16 10:52	12/21/16 13:54	1
2-Methylnaphthalene	0.19	U	0.19	0.036	ug/L		12/15/16 10:52	12/21/16 13:54	1
3 & 4 Methylphenol	1.9	U	1.9	0.32	ug/L		12/15/16 10:52	12/21/16 13:54	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.038	ug/L		12/15/16 10:52	12/21/16 13:54	1
Dibenzofuran	0.96	U	0.96	0.13	ug/L		12/15/16 10:52	12/21/16 13:54	1
3,3'-Dichlorobenzidine	4.8	U	4.8	0.34	ug/L		12/15/16 10:52	12/21/16 13:54	1
2,4-Dichlorophenol	1.9	U	1.9	0.28	ug/L		12/15/16 10:52	12/21/16 13:54	1
Diethyl phthalate	0.96	U	0.96	0.12	ug/L		12/15/16 10:52	12/21/16 13:54	1
2,4-Dimethylphenol	1.9	U	1.9	0.30	ug/L		12/15/16 10:52	12/21/16 13:54	1
Dimethyl phthalate	0.96	U	0.96	0.097	ug/L		12/15/16 10:52	12/21/16 13:54	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.50	ug/L		12/15/16 10:52	12/21/16 13:54	1
2,4-Dinitrophenol	38	U	38	5.9	ug/L		12/15/16 10:52	12/21/16 13:54	1
2,4-Dinitrotoluene	4.8	U	4.8	0.25	ug/L		12/15/16 10:52	12/21/16 13:54	1
Di-n-butyl phthalate	0.96	U	0.96	0.38	ug/L		12/15/16 10:52	12/21/16 13:54	1
Di-n-octyl phthalate	0.96	U	0.96	0.35	ug/L		12/15/16 10:52	12/21/16 13:54	1
Fluoranthene	0.19	U	0.19	0.026	ug/L		12/15/16 10:52	12/21/16 13:54	1
Fluorene	0.19	U	0.19	0.033	ug/L		12/15/16 10:52	12/21/16 13:54	1
Hexachlorobenzene	0.96	U	0.96	0.11	ug/L		12/15/16 10:52	12/21/16 13:54	1

Client Sample ID: 20161208UAW16-10V13FD
Date Collected: 12/08/16 16:00
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.96	U	0.96	0.14	ug/L		12/15/16 10:52	12/21/16 13:54	1
Hexachlorocyclopentadiene	9.6	U	9.6	2.4	ug/L		12/15/16 10:52	12/21/16 13:54	1
Hexachloroethane	0.96	U	0.96	0.21	ug/L		12/15/16 10:52	12/21/16 13:54	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.046	ug/L		12/15/16 10:52	12/21/16 13:54	1
Isophorone	0.96	U	0.96	0.040	ug/L		12/15/16 10:52	12/21/16 13:54	1
2-Methylphenol	0.96	U	0.96	0.18	ug/L		12/15/16 10:52	12/21/16 13:54	1
Naphthalene	0.19	U	0.19	0.041	ug/L		12/15/16 10:52	12/21/16 13:54	1
2-Nitroaniline	1.9	U	1.9	0.30	ug/L		12/15/16 10:52	12/21/16 13:54	1
3-Nitroaniline	1.9	U *	1.9	0.25	ug/L		12/15/16 10:52	12/21/16 13:54	1
4-Nitroaniline	1.9	U	1.9	0.23	ug/L		12/15/16 10:52	12/21/16 13:54	1
Nitrobenzene	0.96	U	0.96	0.11	ug/L		12/15/16 10:52	12/21/16 13:54	1
2-Nitrophenol	1.9	U	1.9	0.20	ug/L		12/15/16 10:52	12/21/16 13:54	1
4-Nitrophenol	4.8	U	4.8	0.56	ug/L		12/15/16 10:52	12/21/16 13:54	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.11	ug/L		12/15/16 10:52	12/21/16 13:54	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.15	ug/L		12/15/16 10:52	12/21/16 13:54	1
2,2'-oxybis(1-chloropropane)	0.96	U	0.96	0.18	ug/L		12/15/16 10:52	12/21/16 13:54	1
Pentachlorophenol	38	U	38	5.3	ug/L		12/15/16 10:52	12/21/16 13:54	1
Phenanthrene	0.19	U	0.19	0.030	ug/L		12/15/16 10:52	12/21/16 13:54	1
Phenol	**1.6**		0.96	0.14	ug/L		12/15/16 10:52	12/21/16 13:54	1
Pyrene	0.19	U	0.19	0.027	ug/L		12/15/16 10:52	12/21/16 13:54	1
2,4,5-Trichlorophenol	4.8	U	4.8	0.35	ug/L		12/15/16 10:52	12/21/16 13:54	1
2,4,6-Trichlorophenol	4.8	U	4.8	0.25	ug/L		12/15/16 10:52	12/21/16 13:54	1
2,6-Dinitrotoluene	4.8	U	4.8	0.23	ug/L		12/15/16 10:52	12/21/16 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*44 - 120*	*12/15/16 10:52*	*12/21/16 13:54*	*1*
2-Fluorophenol (Surr)	*46*		*26 - 120*	*12/15/16 10:52*	*12/21/16 13:54*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*36 - 120*	*12/15/16 10:52*	*12/21/16 13:54*	*1*
Nitrobenzene-d5 (Surr)	*75*		*44 - 120*	*12/15/16 10:52*	*12/21/16 13:54*	*1*
Phenol-d5 (Surr)	*45*		*16 - 120*	*12/15/16 10:52*	*12/21/16 13:54*	*1*
Terphenyl-d14 (Surr)	*86*		*43 - 120*	*12/15/16 10:52*	*12/21/16 13:54*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**85**	**J**	200	40	ug/L		12/12/16 14:00	12/14/16 15:59	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/14/16 15:59	1
Barium	**44**	**J**	200	2.4	ug/L		12/12/16 14:00	12/14/16 15:59	1
Beryllium	5.0	U ^	5.0	0.21	ug/L		12/12/16 14:00	12/14/16 15:59	1
Calcium	**170000**		5000	710	ug/L		12/12/16 14:00	12/14/16 15:59	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/14/16 15:59	1
Cobalt	**0.94**	**J**	7.0	0.84	ug/L		12/12/16 14:00	12/14/16 15:59	1
Chromium	**2.7**	**J**	5.0	0.55	ug/L		12/12/16 14:00	12/14/16 15:59	1
Copper	**3.9**	**J**	25	3.9	ug/L		12/12/16 14:00	12/14/16 15:59	1
Iron	**1300**		100	25	ug/L		12/12/16 14:00	12/14/16 15:59	1
Potassium	**6500**	**B**	5000	70	ug/L		12/12/16 14:00	12/14/16 15:59	1
Magnesium	**31000**		5000	230	ug/L		12/12/16 14:00	12/14/16 15:59	1
Manganese	**910**		15	5.1	ug/L		12/12/16 14:00	12/14/16 15:59	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/14/16 15:59	1
Sodium	**270000**	**B**	5000	330	ug/L		12/12/16 14:00	12/14/16 15:59	1
Nickel	**8.2**	**J**	40	1.6	ug/L		12/12/16 14:00	12/14/16 15:59	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: 20161208UAW16-10V13FD
Date Collected: 12/08/16 16:00
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-2
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/14/16 15:59	1
Zinc	**19**	**J**	50	16	ug/L		12/12/16 14:00	12/14/16 15:59	1
Arsenic	10	U	10	3.3	ug/L		12/12/16 14:00	12/14/16 15:59	1
Lead	**2.9**	**J**	5.0	1.9	ug/L		12/12/16 14:00	12/14/16 15:59	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/14/16 15:59	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/14/16 15:59	1
Tin	**860**		100	1.8	ug/L		12/12/16 14:00	12/14/16 15:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 14:05	1

Client Sample ID: 20161209UAW13-20V14N
Date Collected: 12/09/16 09:55
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	100	U	100	18	ug/L			12/20/16 18:52	10
Benzene	**7.8**	**J**	10	2.8	ug/L			12/20/16 18:52	10
Bromodichloromethane	10	U	10	3.0	ug/L			12/20/16 18:52	10
Bromoform	10	U	10	4.3	ug/L			12/20/16 18:52	10
Bromomethane	10	U	10	4.2	ug/L			12/20/16 18:52	10
2-Butanone (MEK)	100	U	100	10	ug/L			12/20/16 18:52	10
Carbon disulfide	**32**		10	3.4	ug/L			12/20/16 18:52	10
Carbon tetrachloride	10	U	10	3.5	ug/L			12/20/16 18:52	10
Chlorobenzene	**64**		10	3.2	ug/L			12/20/16 18:52	10
Chloroethane	10	U	10	4.1	ug/L			12/20/16 18:52	10
Chloroform	10	U	10	3.1	ug/L			12/20/16 18:52	10
Chloromethane	10	U	10	4.3	ug/L			12/20/16 18:52	10
cis-1,2-Dichloroethene	10	U	10	3.0	ug/L			12/20/16 18:52	10
cis-1,3-Dichloropropene	10	U	10	2.6	ug/L			12/20/16 18:52	10
Cyclohexane	10	U	10	4.4	ug/L			12/20/16 18:52	10
Dibromochloromethane	10	U	10	2.5	ug/L			12/20/16 18:52	10
1,2-Dibromo-3-Chloropropane	20	U	20	4.7	ug/L			12/20/16 18:52	10
1,2-Dibromoethane	10	U	10	2.3	ug/L			12/20/16 18:52	10
1,2-Dichlorobenzene	**320**		10	2.6	ug/L			12/20/16 18:52	10
1,3-Dichlorobenzene	10	U	10	3.2	ug/L			12/20/16 18:52	10
1,4-Dichlorobenzene	**36**		10	2.3	ug/L			12/20/16 18:52	10
Dichlorodifluoromethane	10	U	10	5.0	ug/L			12/20/16 18:52	10
1,1-Dichloroethane	10	U	10	2.5	ug/L			12/20/16 18:52	10
1,2-Dichloroethane	10	U	10	3.0	ug/L			12/20/16 18:52	10
1,1-Dichloroethene	10	U	10	2.7	ug/L			12/20/16 18:52	10
1,2-Dichloropropane	10	U	10	3.0	ug/L			12/20/16 18:52	10
Ethylbenzene	**19**		10	2.6	ug/L			12/20/16 18:52	10
2-Hexanone	100	U	100	12	ug/L			12/20/16 18:52	10
Isopropylbenzene	10	U	10	2.1	ug/L			12/20/16 18:52	10
Methyl acetate	100	U	100	14	ug/L			12/20/16 18:52	10
Methylcyclohexane	10	U	10	4.5	ug/L			12/20/16 18:52	10
Methylene Chloride	**16**	**B**	10	5.3	ug/L			12/20/16 18:52	10
4-Methyl-2-pentanone (MIBK)	100	U	100	7.1	ug/L			12/20/16 18:52	10
Methyl tert-butyl ether	10	U	10	2.7	ug/L			12/20/16 18:52	10
Styrene	10	U	10	2.3	ug/L			12/20/16 18:52	10
1,1,2,2-Tetrachloroethane	10	U	10	3.2	ug/L			12/20/16 18:52	10
Tetrachloroethene	10	U	10	3.0	ug/L			12/20/16 18:52	10
Toluene	**9.3**	**J**	10	2.3	ug/L			12/20/16 18:52	10
trans-1,2-Dichloroethene	10	U	10	2.9	ug/L			12/20/16 18:52	10
trans-1,3-Dichloropropene	10	U	10	3.1	ug/L			12/20/16 18:52	10
1,2,4-Trichlorobenzene	10	U	10	2.7	ug/L			12/20/16 18:52	10
1,1,1-Trichloroethane	10	U	10	2.3	ug/L			12/20/16 18:52	10
1,1,2-Trichloroethane	10	U	10	3.4	ug/L			12/20/16 18:52	10
Trichloroethene	10	U	10	3.3	ug/L			12/20/16 18:52	10
Trichlorofluoromethane	10	U	10	5.0	ug/L			12/20/16 18:52	10
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	4.1	ug/L			12/20/16 18:52	10
Vinyl chloride	10	U	10	4.5	ug/L			12/20/16 18:52	10
Xylenes, Total	**28**		20	2.4	ug/L			12/20/16 18:52	10

Client Sample ID: 20161209UAW13-20V14N
Date Collected: 12/09/16 09:55
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*12/20/16 18:52*	*10*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*12/20/16 18:52*	*10*
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 132*		*12/20/16 18:52*	*10*
Toluene-d8 (Surr)	*96*		*73 - 124*		*12/20/16 18:52*	*10*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.80	U	0.80	0.18	ug/L		12/15/16 10:52	12/22/16 10:05	4
Acenaphthylene	0.80	U	0.80	0.080	ug/L		12/15/16 10:52	12/22/16 10:05	4
Acetophenone	4.0	U	4.0	0.56	ug/L		12/15/16 10:52	12/22/16 10:05	4
Aniline	**9.8**	**J**	20	0.87	ug/L		12/15/16 10:52	12/22/16 10:05	4
Anthracene	0.80	U	0.80	0.12	ug/L		12/15/16 10:52	12/22/16 10:05	4
Atrazine	8.0	U	8.0	0.47	ug/L		12/15/16 10:52	12/22/16 10:05	4
Benzaldehyde	8.0	U	8.0	1.2	ug/L		12/15/16 10:52	12/22/16 10:05	4
Benzo[a]anthracene	0.80	U	0.80	0.24	ug/L		12/15/16 10:52	12/22/16 10:05	4
Benzo[b]fluoranthene	0.80	U	0.80	0.24	ug/L		12/15/16 10:52	12/22/16 10:05	4
Benzo[k]fluoranthene	0.80	U	0.80	0.19	ug/L		12/15/16 10:52	12/22/16 10:05	4
Benzo[g,h,i]perylene	0.80	U	0.80	0.20	ug/L		12/15/16 10:52	12/22/16 10:05	4
Benzo[a]pyrene	0.80	U	0.80	0.12	ug/L		12/15/16 10:52	12/22/16 10:05	4
Butyl benzyl phthalate	4.0	U	4.0	0.86	ug/L		12/15/16 10:52	12/22/16 10:05	4
1,1'-Biphenyl	4.0	U	4.0	0.50	ug/L		12/15/16 10:52	12/22/16 10:05	4
Bis(2-chloroethoxy)methane	4.0	U	4.0	0.15	ug/L		12/15/16 10:52	12/22/16 10:05	4
Bis(2-chloroethyl)ether	4.0	U	4.0	0.76	ug/L		12/15/16 10:52	12/22/16 10:05	4
Bis(2-ethylhexyl) phthalate	8.0	U	8.0	6.1	ug/L		12/15/16 10:52	12/22/16 10:05	4
4-Bromophenyl phenyl ether	8.0	U	8.0	1.4	ug/L		12/15/16 10:52	12/22/16 10:05	4
Caprolactam	20	U *	20	1.5	ug/L		12/15/16 10:52	12/22/16 10:05	4
Carbazole	4.0	U	4.0	0.42	ug/L		12/15/16 10:52	12/22/16 10:05	4
4-Chloroaniline	8.0	U	8.0	0.60	ug/L		12/15/16 10:52	12/22/16 10:05	4
4-Chloro-3-methylphenol	8.0	U	8.0	1.1	ug/L		12/15/16 10:52	12/22/16 10:05	4
2-Chloronaphthalene	4.0	U	4.0	0.46	ug/L		12/15/16 10:52	12/22/16 10:05	4
2-Chlorophenol	4.0	U	4.0	0.53	ug/L		12/15/16 10:52	12/22/16 10:05	4
4-Chlorophenyl phenyl ether	8.0	U	8.0	1.2	ug/L		12/15/16 10:52	12/22/16 10:05	4
Chrysene	0.80	U	0.80	0.14	ug/L		12/15/16 10:52	12/22/16 10:05	4
2-Methylnaphthalene	0.80	U	0.80	0.15	ug/L		12/15/16 10:52	12/22/16 10:05	4
3 & 4 Methylphenol	8.0	U	8.0	1.3	ug/L		12/15/16 10:52	12/22/16 10:05	4
Dibenz(a,h)anthracene	0.80	U	0.80	0.16	ug/L		12/15/16 10:52	12/22/16 10:05	4
Dibenzofuran	4.0	U	4.0	0.55	ug/L		12/15/16 10:52	12/22/16 10:05	4
3,3'-Dichlorobenzidine	20	U	20	1.4	ug/L		12/15/16 10:52	12/22/16 10:05	4
2,4-Dichlorophenol	8.0	U	8.0	1.2	ug/L		12/15/16 10:52	12/22/16 10:05	4
Diethyl phthalate	4.0	U	4.0	0.50	ug/L		12/15/16 10:52	12/22/16 10:05	4
2,4-Dimethylphenol	8.0	U	8.0	1.3	ug/L		12/15/16 10:52	12/22/16 10:05	4
Dimethyl phthalate	4.0	U	4.0	0.40	ug/L		12/15/16 10:52	12/22/16 10:05	4
4,6-Dinitro-2-methylphenol	20	U	20	2.1	ug/L		12/15/16 10:52	12/22/16 10:05	4
2,4-Dinitrophenol	160	U	160	25	ug/L		12/15/16 10:52	12/22/16 10:05	4
2,4-Dinitrotoluene	20	U	20	1.0	ug/L		12/15/16 10:52	12/22/16 10:05	4
Di-n-butyl phthalate	4.0	U	4.0	1.6	ug/L		12/15/16 10:52	12/22/16 10:05	4
Di-n-octyl phthalate	4.0	U	4.0	1.5	ug/L		12/15/16 10:52	12/22/16 10:05	4
Fluoranthene	0.80	U	0.80	0.11	ug/L		12/15/16 10:52	12/22/16 10:05	4
Fluorene	0.80	U	0.80	0.14	ug/L		12/15/16 10:52	12/22/16 10:05	4
Hexachlorobenzene	4.0	U	4.0	0.46	ug/L		12/15/16 10:52	12/22/16 10:05	4

Client Sample ID: 20161209UAW13-20V14N
Date Collected: 12/09/16 09:55
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	4.0	U	4.0	0.56	ug/L		12/15/16 10:52	12/22/16 10:05	4
Hexachlorocyclopentadiene	40	U	40	9.9	ug/L		12/15/16 10:52	12/22/16 10:05	4
Hexachloroethane	4.0	U	4.0	0.88	ug/L		12/15/16 10:52	12/22/16 10:05	4
Indeno[1,2,3-cd]pyrene	0.80	U	0.80	0.19	ug/L		12/15/16 10:52	12/22/16 10:05	4
Isophorone	4.0	U	4.0	0.17	ug/L		12/15/16 10:52	12/22/16 10:05	4
2-Methylphenol	4.0	U	4.0	0.75	ug/L		12/15/16 10:52	12/22/16 10:05	4
Naphthalene	0.80	U	0.80	0.17	ug/L		12/15/16 10:52	12/22/16 10:05	4
2-Nitroaniline	8.0	U	8.0	1.2	ug/L		12/15/16 10:52	12/22/16 10:05	4
3-Nitroaniline	8.0	U *	8.0	1.1	ug/L		12/15/16 10:52	12/22/16 10:05	4
4-Nitroaniline	8.0	U	8.0	0.96	ug/L		12/15/16 10:52	12/22/16 10:05	4
Nitrobenzene	4.0	U	4.0	0.47	ug/L		12/15/16 10:52	12/22/16 10:05	4
2-Nitrophenol	8.0	U	8.0	0.83	ug/L		12/15/16 10:52	12/22/16 10:05	4
4-Nitrophenol	20	U	20	2.3	ug/L		12/15/16 10:52	12/22/16 10:05	4
N-Nitrosodiphenylamine	4.0	U	4.0	0.45	ug/L		12/15/16 10:52	12/22/16 10:05	4
N-Nitrosodi-n-propylamine	4.0	U	4.0	0.64	ug/L		12/15/16 10:52	12/22/16 10:05	4
2,2'-oxybis(1-chloropropane)	4.0	U	4.0	0.73	ug/L		12/15/16 10:52	12/22/16 10:05	4
Pentachlorophenol	160	U	160	22	ug/L		12/15/16 10:52	12/22/16 10:05	4
Phenanthrene	0.80	U	0.80	0.12	ug/L		12/15/16 10:52	12/22/16 10:05	4
Phenol	4.0	U	4.0	0.60	ug/L		12/15/16 10:52	12/22/16 10:05	4
Pyrene	0.80	U	0.80	0.11	ug/L		12/15/16 10:52	12/22/16 10:05	4
2,4,5-Trichlorophenol	20	U	20	1.5	ug/L		12/15/16 10:52	12/22/16 10:05	4
2,4,6-Trichlorophenol	20	U	20	1.0	ug/L		12/15/16 10:52	12/22/16 10:05	4
2,6-Dinitrotoluene	20	U	20	0.94	ug/L		12/15/16 10:52	12/22/16 10:05	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*44 - 120*	*12/15/16 10:52*	*12/22/16 10:05*	*4*
2-Fluorophenol (Surr)	*52*		*26 - 120*	*12/15/16 10:52*	*12/22/16 10:05*	*4*
2,4,6-Tribromophenol (Surr)	*69*		*36 - 120*	*12/15/16 10:52*	*12/22/16 10:05*	*4*
Nitrobenzene-d5 (Surr)	*73*		*44 - 120*	*12/15/16 10:52*	*12/22/16 10:05*	*4*
Phenol-d5 (Surr)	*38*		*16 - 120*	*12/15/16 10:52*	*12/22/16 10:05*	*4*
Terphenyl-d14 (Surr)	*77*		*43 - 120*	*12/15/16 10:52*	*12/22/16 10:05*	*4*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**140**	**J**	200	40	ug/L		12/12/16 14:00	12/14/16 03:56	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/14/16 03:56	1
Barium	**5.2**	**J**	200	2.4	ug/L		12/12/16 14:00	12/14/16 03:56	1
Beryllium	5.0	U ^	5.0	0.21	ug/L		12/12/16 14:00	12/14/16 16:12	1
Calcium	**750000**		5000	710	ug/L		12/12/16 14:00	12/14/16 03:56	1
Cadmium	**0.35**	**J**	2.0	0.29	ug/L		12/12/16 14:00	12/14/16 03:56	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/12/16 14:00	12/14/16 03:56	1
Chromium	**570**		5.0	0.55	ug/L		12/12/16 14:00	12/14/16 03:56	1
Copper	**5.3**	**J**	25	3.9	ug/L		12/12/16 14:00	12/14/16 03:56	1
Iron	**1800**		100	25	ug/L		12/12/16 14:00	12/14/16 03:56	1
Potassium	**4800**	**J B**	5000	70	ug/L		12/12/16 14:00	12/14/16 03:56	1
Magnesium	**56000**		5000	230	ug/L		12/12/16 14:00	12/14/16 03:56	1
Manganese	**2700**		15	5.1	ug/L		12/12/16 14:00	12/14/16 03:56	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/14/16 03:56	1
Sodium	**460000**	**B**	5000	330	ug/L		12/12/16 14:00	12/14/16 03:56	1
Nickel	**27**	**J**	40	1.6	ug/L		12/12/16 14:00	12/14/16 03:56	1

Client Sample ID: 20161209UAW13-20V14N
Date Collected: 12/09/16 09:55
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-3
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/14/16 03:56	1
Zinc	**18**	**J**	50	16	ug/L		12/12/16 14:00	12/14/16 03:56	1
Arsenic	**15**		10	3.3	ug/L		12/12/16 14:00	12/14/16 03:56	1
Lead	**11**		5.0	1.9	ug/L		12/12/16 14:00	12/14/16 03:56	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/14/16 03:56	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/14/16 03:56	1
Tin	**1300**		100	1.8	ug/L		12/12/16 14:00	12/14/16 03:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 14:11	1

Client Sample ID: 20161209UAW08-20V15N
Date Collected: 12/09/16 11:50
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	170	U H	170	29	ug/L			12/20/16 19:15	16.67
Benzene	**120**	**H**	17	4.7	ug/L			12/20/16 19:15	16.67
Bromodichloromethane	17	U H	17	5.0	ug/L			12/20/16 19:15	16.67
Bromoform	17	U H	17	7.2	ug/L			12/20/16 19:15	16.67
Bromomethane	17	U H	17	7.0	ug/L			12/20/16 19:15	16.67
2-Butanone (MEK)	170	U H	170	17	ug/L			12/20/16 19:15	16.67
Carbon disulfide	**250**	**H**	17	5.7	ug/L			12/20/16 19:15	16.67
Carbon tetrachloride	17	U H	17	5.8	ug/L			12/20/16 19:15	16.67
Chlorobenzene	**140**	**H**	17	5.3	ug/L			12/20/16 19:15	16.67
Chloroethane	17	U H	17	6.8	ug/L			12/20/16 19:15	16.67
Chloroform	17	U H	17	5.2	ug/L			12/20/16 19:15	16.67
Chloromethane	17	U H	17	7.2	ug/L			12/20/16 19:15	16.67
cis-1,2-Dichloroethene	17	U H	17	5.0	ug/L			12/20/16 19:15	16.67
cis-1,3-Dichloropropene	17	U H	17	4.3	ug/L			12/20/16 19:15	16.67
Cyclohexane	17	U H	17	7.3	ug/L			12/20/16 19:15	16.67
Dibromochloromethane	17	U H	17	4.2	ug/L			12/20/16 19:15	16.67
1,2-Dibromo-3-Chloropropane	33	U H	33	7.8	ug/L			12/20/16 19:15	16.67
1,2-Dibromoethane	17	U H	17	3.8	ug/L			12/20/16 19:15	16.67
1,2-Dichlorobenzene	**490**	**H**	17	4.3	ug/L			12/20/16 19:15	16.67
1,3-Dichlorobenzene	**9.0**	**J H**	17	5.3	ug/L			12/20/16 19:15	16.67
1,4-Dichlorobenzene	**55**	**H**	17	3.8	ug/L			12/20/16 19:15	16.67
Dichlorodifluoromethane	17	U H	17	8.3	ug/L			12/20/16 19:15	16.67
1,1-Dichloroethane	17	U H	17	4.2	ug/L			12/20/16 19:15	16.67
1,2-Dichloroethane	17	U H	17	5.0	ug/L			12/20/16 19:15	16.67
1,1-Dichloroethene	17	U H	17	4.5	ug/L			12/20/16 19:15	16.67
1,2-Dichloropropane	17	U H	17	5.0	ug/L			12/20/16 19:15	16.67
Ethylbenzene	**76**	**H**	17	4.3	ug/L			12/20/16 19:15	16.67
2-Hexanone	170	U H	170	21	ug/L			12/20/16 19:15	16.67
Isopropylbenzene	17	U H	17	3.5	ug/L			12/20/16 19:15	16.67
Methyl acetate	170	U H	170	24	ug/L			12/20/16 19:15	16.67
Methylcyclohexane	**45**	**H**	17	7.5	ug/L			12/20/16 19:15	16.67
Methylene Chloride	**19**	**B H**	17	8.8	ug/L			12/20/16 19:15	16.67
4-Methyl-2-pentanone (MIBK)	**24**	**J H**	170	12	ug/L			12/20/16 19:15	16.67
Methyl tert-butyl ether	17	U H	17	4.5	ug/L			12/20/16 19:15	16.67
Styrene	17	U H	17	3.8	ug/L			12/20/16 19:15	16.67
1,1,2,2-Tetrachloroethane	17	U H	17	5.3	ug/L			12/20/16 19:15	16.67
Tetrachloroethene	17	U H	17	5.0	ug/L			12/20/16 19:15	16.67
Toluene	**51**	**H**	17	3.8	ug/L			12/20/16 19:15	16.67
trans-1,2-Dichloroethene	17	U H	17	4.8	ug/L			12/20/16 19:15	16.67
trans-1,3-Dichloropropene	17	U H	17	5.2	ug/L			12/20/16 19:15	16.67
1,2,4-Trichlorobenzene	17	U H	17	4.5	ug/L			12/20/16 19:15	16.67
1,1,1-Trichloroethane	17	U H	17	3.8	ug/L			12/20/16 19:15	16.67
1,1,2-Trichloroethane	17	U H	17	5.7	ug/L			12/20/16 19:15	16.67
Trichloroethene	17	U H	17	5.5	ug/L			12/20/16 19:15	16.67
Trichlorofluoromethane	17	U H	17	8.3	ug/L			12/20/16 19:15	16.67
1,1,2-Trichloro-1,2,2-trifluoroethane	17	U H	17	6.8	ug/L			12/20/16 19:15	16.67
Vinyl chloride	17	U H	17	7.5	ug/L			12/20/16 19:15	16.67
Xylenes, Total	**220**	**H**	33	4.0	ug/L			12/20/16 19:15	16.67

Client Sample ID: 20161209UAW08-20V15N
Date Collected: 12/09/16 11:50
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*12/20/16 19:15*	*16.67*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*12/20/16 19:15*	*16.67*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 132*		*12/20/16 19:15*	*16.67*
Toluene-d8 (Surr)	*98*		*73 - 124*		*12/20/16 19:15*	*16.67*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.0	U	2.0	0.44	ug/L		12/15/16 10:52	12/22/16 10:29	10
Acenaphthylene	2.0	U	2.0	0.20	ug/L		12/15/16 10:52	12/22/16 10:29	10
Acetophenone	10	U	10	1.4	ug/L		12/15/16 10:52	12/22/16 10:29	10
Aniline	**180**		50	2.2	ug/L		12/15/16 10:52	12/22/16 10:29	10
Anthracene	2.0	U	2.0	0.31	ug/L		12/15/16 10:52	12/22/16 10:29	10
Atrazine	20	U	20	1.2	ug/L		12/15/16 10:52	12/22/16 10:29	10
Benzaldehyde	20	U	20	3.0	ug/L		12/15/16 10:52	12/22/16 10:29	10
Benzo[a]anthracene	2.0	U	2.0	0.59	ug/L		12/15/16 10:52	12/22/16 10:29	10
Benzo[b]fluoranthene	2.0	U	2.0	0.59	ug/L		12/15/16 10:52	12/22/16 10:29	10
Benzo[k]fluoranthene	2.0	U	2.0	0.48	ug/L		12/15/16 10:52	12/22/16 10:29	10
Benzo[g,h,i]perylene	2.0	U	2.0	0.50	ug/L		12/15/16 10:52	12/22/16 10:29	10
Benzo[a]pyrene	2.0	U	2.0	0.30	ug/L		12/15/16 10:52	12/22/16 10:29	10
Butyl benzyl phthalate	10	U	10	2.2	ug/L		12/15/16 10:52	12/22/16 10:29	10
1,1'-Biphenyl	**8.0**	**J**	10	1.2	ug/L		12/15/16 10:52	12/22/16 10:29	10
Bis(2-chloroethoxy)methane	10	U	10	0.37	ug/L		12/15/16 10:52	12/22/16 10:29	10
Bis(2-chloroethyl)ether	10	U	10	1.9	ug/L		12/15/16 10:52	12/22/16 10:29	10
Bis(2-ethylhexyl) phthalate	20	U	20	15	ug/L		12/15/16 10:52	12/22/16 10:29	10
4-Bromophenyl phenyl ether	20	U	20	3.5	ug/L		12/15/16 10:52	12/22/16 10:29	10
Caprolactam	50	U *	50	3.7	ug/L		12/15/16 10:52	12/22/16 10:29	10
Carbazole	10	U	10	1.1	ug/L		12/15/16 10:52	12/22/16 10:29	10
4-Chloroaniline	20	U	20	1.5	ug/L		12/15/16 10:52	12/22/16 10:29	10
4-Chloro-3-methylphenol	20	U	20	2.8	ug/L		12/15/16 10:52	12/22/16 10:29	10
2-Chloronaphthalene	10	U	10	1.2	ug/L		12/15/16 10:52	12/22/16 10:29	10
2-Chlorophenol	10	U	10	1.3	ug/L		12/15/16 10:52	12/22/16 10:29	10
4-Chlorophenyl phenyl ether	20	U	20	2.9	ug/L		12/15/16 10:52	12/22/16 10:29	10
Chrysene	2.0	U	2.0	0.35	ug/L		12/15/16 10:52	12/22/16 10:29	10
2-Methylnaphthalene	2.0	U	2.0	0.37	ug/L		12/15/16 10:52	12/22/16 10:29	10
3 & 4 Methylphenol	20	U	20	3.4	ug/L		12/15/16 10:52	12/22/16 10:29	10
Dibenz(a,h)anthracene	2.0	U	2.0	0.40	ug/L		12/15/16 10:52	12/22/16 10:29	10
Dibenzofuran	10	U	10	1.4	ug/L		12/15/16 10:52	12/22/16 10:29	10
3,3'-Dichlorobenzidine	50	U	50	3.5	ug/L		12/15/16 10:52	12/22/16 10:29	10
2,4-Dichlorophenol	20	U	20	2.9	ug/L		12/15/16 10:52	12/22/16 10:29	10
Diethyl phthalate	10	U	10	1.3	ug/L		12/15/16 10:52	12/22/16 10:29	10
2,4-Dimethylphenol	20	U	20	3.1	ug/L		12/15/16 10:52	12/22/16 10:29	10
Dimethyl phthalate	10	U	10	1.0	ug/L		12/15/16 10:52	12/22/16 10:29	10
4,6-Dinitro-2-methylphenol	50	U	50	5.3	ug/L		12/15/16 10:52	12/22/16 10:29	10
2,4-Dinitrophenol	400	U	400	61	ug/L		12/15/16 10:52	12/22/16 10:29	10
2,4-Dinitrotoluene	50	U	50	2.6	ug/L		12/15/16 10:52	12/22/16 10:29	10
Di-n-butyl phthalate	10	U	10	4.0	ug/L		12/15/16 10:52	12/22/16 10:29	10
Di-n-octyl phthalate	10	U	10	3.7	ug/L		12/15/16 10:52	12/22/16 10:29	10
Fluoranthene	2.0	U	2.0	0.27	ug/L		12/15/16 10:52	12/22/16 10:29	10
Fluorene	2.0	U	2.0	0.34	ug/L		12/15/16 10:52	12/22/16 10:29	10
Hexachlorobenzene	10	U	10	1.2	ug/L		12/15/16 10:52	12/22/16 10:29	10

Client Sample ID: 20161209UAW08-20V15N
Date Collected: 12/09/16 11:50
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	10	U	10	1.4	ug/L		12/15/16 10:52	12/22/16 10:29	10
Hexachlorocyclopentadiene	100	U	100	25	ug/L		12/15/16 10:52	12/22/16 10:29	10
Hexachloroethane	10	U	10	2.2	ug/L		12/15/16 10:52	12/22/16 10:29	10
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	0.48	ug/L		12/15/16 10:52	12/22/16 10:29	10
Isophorone	10	U	10	0.42	ug/L		12/15/16 10:52	12/22/16 10:29	10
2-Methylphenol	10	U	10	1.9	ug/L		12/15/16 10:52	12/22/16 10:29	10
Naphthalene	2.0	U	2.0	0.43	ug/L		12/15/16 10:52	12/22/16 10:29	10
2-Nitroaniline	20	U	20	3.1	ug/L		12/15/16 10:52	12/22/16 10:29	10
3-Nitroaniline	20	U *	20	2.7	ug/L		12/15/16 10:52	12/22/16 10:29	10
4-Nitroaniline	20	U	20	2.4	ug/L		12/15/16 10:52	12/22/16 10:29	10
Nitrobenzene	10	U	10	1.2	ug/L		12/15/16 10:52	12/22/16 10:29	10
2-Nitrophenol	20	U	20	2.1	ug/L		12/15/16 10:52	12/22/16 10:29	10
4-Nitrophenol	50	U	50	5.9	ug/L		12/15/16 10:52	12/22/16 10:29	10
N-Nitrosodiphenylamine	10	U	10	1.1	ug/L		12/15/16 10:52	12/22/16 10:29	10
N-Nitrosodi-n-propylamine	10	U	10	1.6	ug/L		12/15/16 10:52	12/22/16 10:29	10
2,2'-oxybis(1-chloropropane)	10	U	10	1.8	ug/L		12/15/16 10:52	12/22/16 10:29	10
Pentachlorophenol	400	U	400	55	ug/L		12/15/16 10:52	12/22/16 10:29	10
Phenanthrene	2.0	U	2.0	0.31	ug/L		12/15/16 10:52	12/22/16 10:29	10
Phenol	10	U	10	1.5	ug/L		12/15/16 10:52	12/22/16 10:29	10
Pyrene	2.0	U	2.0	0.28	ug/L		12/15/16 10:52	12/22/16 10:29	10
2,4,5-Trichlorophenol	50	U	50	3.7	ug/L		12/15/16 10:52	12/22/16 10:29	10
2,4,6-Trichlorophenol	50	U	50	2.6	ug/L		12/15/16 10:52	12/22/16 10:29	10
2,6-Dinitrotoluene	50	U	50	2.4	ug/L		12/15/16 10:52	12/22/16 10:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*44 - 120*	*12/15/16 10:52*	*12/22/16 10:29*	*10*
2-Fluorophenol (Surr)	*31*		*26 - 120*	*12/15/16 10:52*	*12/22/16 10:29*	*10*
2,4,6-Tribromophenol (Surr)	*66*		*36 - 120*	*12/15/16 10:52*	*12/22/16 10:29*	*10*
Nitrobenzene-d5 (Surr)	*76*		*44 - 120*	*12/15/16 10:52*	*12/22/16 10:29*	*10*
Phenol-d5 (Surr)	*35*		*16 - 120*	*12/15/16 10:52*	*12/22/16 10:29*	*10*
Terphenyl-d14 (Surr)	*71*		*43 - 120*	*12/15/16 10:52*	*12/22/16 10:29*	*10*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/12/16 14:00	12/14/16 04:01	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/14/16 04:01	1
Barium	**75**	**J**	200	2.4	ug/L		12/12/16 14:00	12/14/16 04:01	1
Beryllium	5.0	U ^	5.0	0.21	ug/L		12/12/16 14:00	12/14/16 16:16	1
Calcium	**1000000**		25000	3600	ug/L		12/12/16 14:00	12/14/16 16:21	5
Cadmium	**0.88**	**J**	2.0	0.29	ug/L		12/12/16 14:00	12/14/16 04:01	1
Cobalt	**1.9**	**J**	7.0	0.84	ug/L		12/12/16 14:00	12/14/16 04:01	1
Chromium	**23**		5.0	0.55	ug/L		12/12/16 14:00	12/14/16 04:01	1
Copper	130	U	130	20	ug/L		12/12/16 14:00	12/14/16 16:21	5
Iron	**56**	**J**	100	25	ug/L		12/12/16 14:00	12/14/16 04:01	1
Potassium	**14000**	**B**	5000	70	ug/L		12/12/16 14:00	12/14/16 04:01	1
Magnesium	**120000**		5000	230	ug/L		12/12/16 14:00	12/14/16 04:01	1
Manganese	**400**		15	5.1	ug/L		12/12/16 14:00	12/14/16 04:01	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/14/16 04:01	1
Sodium	**780000**	**B**	25000	1700	ug/L		12/12/16 14:00	12/14/16 16:21	5
Nickel	**12**	**J**	40	1.6	ug/L		12/12/16 14:00	12/14/16 04:01	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: 20161209UAW08-20V15N
Date Collected: 12/09/16 11:50
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-4
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/14/16 04:01	1
Zinc	50	U	50	16	ug/L		12/12/16 14:00	12/14/16 04:01	1
Arsenic	**30**		10	3.3	ug/L		12/12/16 14:00	12/14/16 04:01	1
Lead	**10**		5.0	1.9	ug/L		12/12/16 14:00	12/14/16 04:01	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/14/16 04:01	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/14/16 04:01	1
Tin	**4500**		100	1.8	ug/L		12/12/16 14:00	12/14/16 04:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 14:13	1

Client Sample ID: 20161209UAW07-20V15N
Date Collected: 12/09/16 14:30
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	50	U	50	8.8	ug/L			12/20/16 19:37	5
Benzene	**1.4**	**J**	5.0	1.4	ug/L			12/20/16 19:37	5
Bromodichloromethane	5.0	U	5.0	1.5	ug/L			12/20/16 19:37	5
Bromoform	5.0	U	5.0	2.2	ug/L			12/20/16 19:37	5
Bromomethane	5.0	U	5.0	2.1	ug/L			12/20/16 19:37	5
2-Butanone (MEK)	50	U	50	5.1	ug/L			12/20/16 19:37	5
Carbon disulfide	**78**		5.0	1.7	ug/L			12/20/16 19:37	5
Carbon tetrachloride	5.0	U	5.0	1.8	ug/L			12/20/16 19:37	5
Chlorobenzene	**390**		50	16	ug/L			12/21/16 14:20	50
Chloroethane	5.0	U	5.0	2.1	ug/L			12/20/16 19:37	5
Chloroform	5.0	U	5.0	1.6	ug/L			12/20/16 19:37	5
Chloromethane	5.0	U	5.0	2.2	ug/L			12/20/16 19:37	5
cis-1,2-Dichloroethene	5.0	U	5.0	1.5	ug/L			12/20/16 19:37	5
cis-1,3-Dichloropropene	5.0	U	5.0	1.3	ug/L			12/20/16 19:37	5
Cyclohexane	5.0	U	5.0	2.2	ug/L			12/20/16 19:37	5
Dibromochloromethane	5.0	U	5.0	1.3	ug/L			12/20/16 19:37	5
1,2-Dibromo-3-Chloropropane	10	U	10	2.4	ug/L			12/20/16 19:37	5
1,2-Dibromoethane	5.0	U	5.0	1.2	ug/L			12/20/16 19:37	5
1,2-Dichlorobenzene	**170**		5.0	1.3	ug/L			12/20/16 19:37	5
1,3-Dichlorobenzene	**5.3**		5.0	1.6	ug/L			12/20/16 19:37	5
1,4-Dichlorobenzene	**38**		5.0	1.2	ug/L			12/20/16 19:37	5
Dichlorodifluoromethane	5.0	U	5.0	2.5	ug/L			12/20/16 19:37	5
1,1-Dichloroethane	5.0	U	5.0	1.3	ug/L			12/20/16 19:37	5
1,2-Dichloroethane	5.0	U	5.0	1.5	ug/L			12/20/16 19:37	5
1,1-Dichloroethene	5.0	U	5.0	1.4	ug/L			12/20/16 19:37	5
1,2-Dichloropropane	5.0	U	5.0	1.5	ug/L			12/20/16 19:37	5
Ethylbenzene	5.0	U	5.0	1.3	ug/L			12/20/16 19:37	5
2-Hexanone	50	U	50	6.2	ug/L			12/20/16 19:37	5
Isopropylbenzene	**1.3**	**J**	5.0	1.1	ug/L			12/20/16 19:37	5
Methyl acetate	50	U	50	7.2	ug/L			12/20/16 19:37	5
Methylcyclohexane	5.0	U	5.0	2.3	ug/L			12/20/16 19:37	5
Methylene Chloride	**6.2**	**B**	5.0	2.7	ug/L			12/20/16 19:37	5
4-Methyl-2-pentanone (MIBK)	50	U	50	3.6	ug/L			12/20/16 19:37	5
Methyl tert-butyl ether	5.0	U	5.0	1.4	ug/L			12/20/16 19:37	5
Styrene	5.0	U	5.0	1.2	ug/L			12/20/16 19:37	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.6	ug/L			12/20/16 19:37	5
Tetrachloroethene	5.0	U	5.0	1.5	ug/L			12/20/16 19:37	5
Toluene	5.0	U	5.0	1.2	ug/L			12/20/16 19:37	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.5	ug/L			12/20/16 19:37	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.6	ug/L			12/20/16 19:37	5
1,2,4-Trichlorobenzene	5.0	U	5.0	1.4	ug/L			12/20/16 19:37	5
1,1,1-Trichloroethane	5.0	U	5.0	1.2	ug/L			12/20/16 19:37	5
1,1,2-Trichloroethane	5.0	U	5.0	1.7	ug/L			12/20/16 19:37	5
Trichloroethene	5.0	U	5.0	1.7	ug/L			12/20/16 19:37	5
Trichlorofluoromethane	5.0	U	5.0	2.5	ug/L			12/20/16 19:37	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	2.1	ug/L			12/20/16 19:37	5
Vinyl chloride	5.0	U	5.0	2.3	ug/L			12/20/16 19:37	5
Xylenes, Total	**1.3**	**J**	10	1.2	ug/L			12/20/16 19:37	5

Client Sample ID: 20161209UAW07-20V15N
Date Collected: 12/09/16 14:30
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*12/20/16 19:37*	*5*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*12/21/16 14:20*	*50*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*12/20/16 19:37*	*5*
Dibromofluoromethane (Surr)	*124*	*X*	*80 - 120*		*12/21/16 14:20*	*50*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 132*		*12/20/16 19:37*	*5*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 132*		*12/21/16 14:20*	*50*
Toluene-d8 (Surr)	*95*		*73 - 124*		*12/20/16 19:37*	*5*
Toluene-d8 (Surr)	*92*		*73 - 124*		*12/21/16 14:20*	*50*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.77	U	0.77	0.17	ug/L		12/15/16 10:52	12/22/16 09:41	4
Acenaphthylene	0.77	U	0.77	0.077	ug/L		12/15/16 10:52	12/22/16 09:41	4
Acetophenone	3.8	U	3.8	0.54	ug/L		12/15/16 10:52	12/22/16 09:41	4
Aniline	**2.9**	**J**	19	0.83	ug/L		12/15/16 10:52	12/22/16 09:41	4
Anthracene	0.77	U	0.77	0.12	ug/L		12/15/16 10:52	12/22/16 09:41	4
Atrazine	7.7	U	7.7	0.45	ug/L		12/15/16 10:52	12/22/16 09:41	4
Benzaldehyde	7.7	U	7.7	1.1	ug/L		12/15/16 10:52	12/22/16 09:41	4
Benzo[a]anthracene	0.77	U	0.77	0.23	ug/L		12/15/16 10:52	12/22/16 09:41	4
Benzo[b]fluoranthene	0.77	U	0.77	0.23	ug/L		12/15/16 10:52	12/22/16 09:41	4
Benzo[k]fluoranthene	0.77	U	0.77	0.18	ug/L		12/15/16 10:52	12/22/16 09:41	4
Benzo[g,h,i]perylene	0.77	U	0.77	0.19	ug/L		12/15/16 10:52	12/22/16 09:41	4
Benzo[a]pyrene	0.77	U	0.77	0.12	ug/L		12/15/16 10:52	12/22/16 09:41	4
Butyl benzyl phthalate	3.8	U	3.8	0.83	ug/L		12/15/16 10:52	12/22/16 09:41	4
1,1'-Biphenyl	3.8	U	3.8	0.48	ug/L		12/15/16 10:52	12/22/16 09:41	4
Bis(2-chloroethoxy)methane	3.8	U	3.8	0.14	ug/L		12/15/16 10:52	12/22/16 09:41	4
Bis(2-chloroethyl)ether	3.8	U	3.8	0.73	ug/L		12/15/16 10:52	12/22/16 09:41	4
Bis(2-ethylhexyl) phthalate	7.7	U	7.7	5.9	ug/L		12/15/16 10:52	12/22/16 09:41	4
4-Bromophenyl phenyl ether	7.7	U	7.7	1.3	ug/L		12/15/16 10:52	12/22/16 09:41	4
Caprolactam	19	U *	19	1.4	ug/L		12/15/16 10:52	12/22/16 09:41	4
Carbazole	3.8	U	3.8	0.40	ug/L		12/15/16 10:52	12/22/16 09:41	4
4-Chloroaniline	7.7	U	7.7	0.57	ug/L		12/15/16 10:52	12/22/16 09:41	4
4-Chloro-3-methylphenol	7.7	U	7.7	1.1	ug/L		12/15/16 10:52	12/22/16 09:41	4
2-Chloronaphthalene	3.8	U	3.8	0.44	ug/L		12/15/16 10:52	12/22/16 09:41	4
2-Chlorophenol	3.8	U	3.8	0.51	ug/L		12/15/16 10:52	12/22/16 09:41	4
4-Chlorophenyl phenyl ether	7.7	U	7.7	1.1	ug/L		12/15/16 10:52	12/22/16 09:41	4
Chrysene	0.77	U	0.77	0.13	ug/L		12/15/16 10:52	12/22/16 09:41	4
2-Methylnaphthalene	0.77	U	0.77	0.14	ug/L		12/15/16 10:52	12/22/16 09:41	4
3 & 4 Methylphenol	7.7	U	7.7	1.3	ug/L		12/15/16 10:52	12/22/16 09:41	4
Dibenz(a,h)anthracene	0.77	U	0.77	0.15	ug/L		12/15/16 10:52	12/22/16 09:41	4
Dibenzofuran	3.8	U	3.8	0.53	ug/L		12/15/16 10:52	12/22/16 09:41	4
3,3'-Dichlorobenzidine	19	U	19	1.4	ug/L		12/15/16 10:52	12/22/16 09:41	4
2,4-Dichlorophenol	7.7	U	7.7	1.1	ug/L		12/15/16 10:52	12/22/16 09:41	4
Diethyl phthalate	3.8	U	3.8	0.48	ug/L		12/15/16 10:52	12/22/16 09:41	4
2,4-Dimethylphenol	7.7	U	7.7	1.2	ug/L		12/15/16 10:52	12/22/16 09:41	4
Dimethyl phthalate	3.8	U	3.8	0.39	ug/L		12/15/16 10:52	12/22/16 09:41	4
4,6-Dinitro-2-methylphenol	19	U	19	2.0	ug/L		12/15/16 10:52	12/22/16 09:41	4
2,4-Dinitrophenol	150	U	150	24	ug/L		12/15/16 10:52	12/22/16 09:41	4
2,4-Dinitrotoluene	19	U	19	0.98	ug/L		12/15/16 10:52	12/22/16 09:41	4
Di-n-butyl phthalate	3.8	U	3.8	1.5	ug/L		12/15/16 10:52	12/22/16 09:41	4

Client Sample ID: 20161209UAW07-20V15N
Date Collected: 12/09/16 14:30
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	3.8	U	3.8	1.4	ug/L		12/15/16 10:52	12/22/16 09:41	4
Fluoranthene	0.77	U	0.77	0.10	ug/L		12/15/16 10:52	12/22/16 09:41	4
Fluorene	0.77	U	0.77	0.13	ug/L		12/15/16 10:52	12/22/16 09:41	4
Hexachlorobenzene	3.8	U	3.8	0.44	ug/L		12/15/16 10:52	12/22/16 09:41	4
Hexachlorobutadiene	3.8	U	3.8	0.54	ug/L		12/15/16 10:52	12/22/16 09:41	4
Hexachlorocyclopentadiene	38	U	38	9.5	ug/L		12/15/16 10:52	12/22/16 09:41	4
Hexachloroethane	3.8	U	3.8	0.84	ug/L		12/15/16 10:52	12/22/16 09:41	4
Indeno[1,2,3-cd]pyrene	0.77	U	0.77	0.18	ug/L		12/15/16 10:52	12/22/16 09:41	4
Isophorone	3.8	U	3.8	0.16	ug/L		12/15/16 10:52	12/22/16 09:41	4
2-Methylphenol	3.8	U	3.8	0.72	ug/L		12/15/16 10:52	12/22/16 09:41	4
Naphthalene	0.77	U	0.77	0.17	ug/L		12/15/16 10:52	12/22/16 09:41	4
2-Nitroaniline	7.7	U	7.7	1.2	ug/L		12/15/16 10:52	12/22/16 09:41	4
3-Nitroaniline	7.7	U *	7.7	1.0	ug/L		12/15/16 10:52	12/22/16 09:41	4
4-Nitroaniline	7.7	U	7.7	0.93	ug/L		12/15/16 10:52	12/22/16 09:41	4
Nitrobenzene	3.8	U	3.8	0.45	ug/L		12/15/16 10:52	12/22/16 09:41	4
2-Nitrophenol	7.7	U	7.7	0.80	ug/L		12/15/16 10:52	12/22/16 09:41	4
4-Nitrophenol	19	U	19	2.3	ug/L		12/15/16 10:52	12/22/16 09:41	4
N-Nitrosodiphenylamine	3.8	U	3.8	0.43	ug/L		12/15/16 10:52	12/22/16 09:41	4
N-Nitrosodi-n-propylamine	3.8	U	3.8	0.61	ug/L		12/15/16 10:52	12/22/16 09:41	4
2,2'-oxybis(1-chloropropane)	3.8	U	3.8	0.70	ug/L		12/15/16 10:52	12/22/16 09:41	4
Pentachlorophenol	150	U	150	21	ug/L		12/15/16 10:52	12/22/16 09:41	4
Phenanthrene	0.77	U	0.77	0.12	ug/L		12/15/16 10:52	12/22/16 09:41	4
Phenol	3.8	U	3.8	0.58	ug/L		12/15/16 10:52	12/22/16 09:41	4
Pyrene	0.77	U	0.77	0.11	ug/L		12/15/16 10:52	12/22/16 09:41	4
2,4,5-Trichlorophenol	19	U	19	1.4	ug/L		12/15/16 10:52	12/22/16 09:41	4
2,4,6-Trichlorophenol	19	U	19	1.0	ug/L		12/15/16 10:52	12/22/16 09:41	4
2,6-Dinitrotoluene	19	U	19	0.90	ug/L		12/15/16 10:52	12/22/16 09:41	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*44 - 120*	*12/15/16 10:52*	*12/22/16 09:41*	*4*
2-Fluorophenol (Surr)	*40*		*26 - 120*	*12/15/16 10:52*	*12/22/16 09:41*	*4*
2,4,6-Tribromophenol (Surr)	*65*		*36 - 120*	*12/15/16 10:52*	*12/22/16 09:41*	*4*
Nitrobenzene-d5 (Surr)	*78*		*44 - 120*	*12/15/16 10:52*	*12/22/16 09:41*	*4*
Phenol-d5 (Surr)	*38*		*16 - 120*	*12/15/16 10:52*	*12/22/16 09:41*	*4*
Terphenyl-d14 (Surr)	*83*		*43 - 120*	*12/15/16 10:52*	*12/22/16 09:41*	*4*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**57**	**J**	200	40	ug/L		12/12/16 14:00	12/14/16 04:05	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/14/16 04:05	1
Barium	**40**	**J**	200	2.4	ug/L		12/12/16 14:00	12/14/16 04:05	1
Beryllium	5.0	U ^	5.0	0.21	ug/L		12/12/16 14:00	12/14/16 16:25	1
Calcium	**270000**		5000	710	ug/L		12/12/16 14:00	12/14/16 04:05	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/14/16 04:05	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/12/16 14:00	12/14/16 04:05	1
Chromium	**3.1**	**J**	5.0	0.55	ug/L		12/12/16 14:00	12/14/16 04:05	1
Copper	25	U	25	3.9	ug/L		12/12/16 14:00	12/14/16 04:05	1
Iron	**100**		100	25	ug/L		12/12/16 14:00	12/14/16 04:05	1
Potassium	**6300**	**B**	5000	70	ug/L		12/12/16 14:00	12/14/16 04:05	1
Magnesium	**34000**		5000	230	ug/L		12/12/16 14:00	12/14/16 04:05	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: 20161209UAW07-20V15N
Date Collected: 12/09/16 14:30
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-5
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**1100**		15	5.1	ug/L		12/12/16 14:00	12/14/16 04:05	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/14/16 04:05	1
Sodium	**310000**	**B**	5000	330	ug/L		12/12/16 14:00	12/14/16 04:05	1
Nickel	**2.9**	**J**	40	1.6	ug/L		12/12/16 14:00	12/14/16 04:05	1
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/14/16 04:05	1
Zinc	50	U	50	16	ug/L		12/12/16 14:00	12/14/16 04:05	1
Arsenic	10	U	10	3.3	ug/L		12/12/16 14:00	12/14/16 04:05	1
Lead	**3.8**	**J**	5.0	1.9	ug/L		12/12/16 14:00	12/14/16 04:05	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/14/16 04:05	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/14/16 04:05	1
Tin	**300**		100	1.8	ug/L		12/12/16 14:00	12/14/16 04:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 14:15	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: 20161209UAW12-20V14N
Date Collected: 12/09/16 10:10
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	140	U	140	25	ug/L			12/20/16 19:59	14.29
Benzene	14	U	14	4.0	ug/L			12/20/16 19:59	14.29
Bromodichloromethane	14	U	14	4.3	ug/L			12/20/16 19:59	14.29
Bromoform	14	U	14	6.1	ug/L			12/20/16 19:59	14.29
Bromomethane	14	U	14	6.0	ug/L			12/20/16 19:59	14.29
2-Butanone (MEK)	140	U	140	15	ug/L			12/20/16 19:59	14.29
Carbon disulfide	**150**		14	4.9	ug/L			12/20/16 19:59	14.29
Carbon tetrachloride	14	U	14	5.0	ug/L			12/20/16 19:59	14.29
Chlorobenzene	**340**		14	4.6	ug/L			12/20/16 19:59	14.29
Chloroethane	14	U	14	5.9	ug/L			12/20/16 19:59	14.29
Chloroform	14	U	14	4.4	ug/L			12/20/16 19:59	14.29
Chloromethane	14	U	14	6.1	ug/L			12/20/16 19:59	14.29
cis-1,2-Dichloroethene	14	U	14	4.3	ug/L			12/20/16 19:59	14.29
cis-1,3-Dichloropropene	14	U	14	3.7	ug/L			12/20/16 19:59	14.29
Cyclohexane	14	U	14	6.3	ug/L			12/20/16 19:59	14.29
Dibromochloromethane	14	U	14	3.6	ug/L			12/20/16 19:59	14.29
1,2-Dibromo-3-Chloropropane	29	U	29	6.7	ug/L			12/20/16 19:59	14.29
1,2-Dibromoethane	14	U	14	3.3	ug/L			12/20/16 19:59	14.29
1,2-Dichlorobenzene	**400**		14	3.7	ug/L			12/20/16 19:59	14.29
1,3-Dichlorobenzene	**37**		14	4.6	ug/L			12/20/16 19:59	14.29
1,4-Dichlorobenzene	**110**		14	3.3	ug/L			12/20/16 19:59	14.29
Dichlorodifluoromethane	14	U	14	7.1	ug/L			12/20/16 19:59	14.29
1,1-Dichloroethane	14	U	14	3.6	ug/L			12/20/16 19:59	14.29
1,2-Dichloroethane	14	U	14	4.3	ug/L			12/20/16 19:59	14.29
1,1-Dichloroethene	14	U	14	3.9	ug/L			12/20/16 19:59	14.29
1,2-Dichloropropane	14	U	14	4.3	ug/L			12/20/16 19:59	14.29
Ethylbenzene	14	U	14	3.7	ug/L			12/20/16 19:59	14.29
2-Hexanone	140	U	140	18	ug/L			12/20/16 19:59	14.29
Isopropylbenzene	14	U	14	3.0	ug/L			12/20/16 19:59	14.29
Methyl acetate	140	U	140	20	ug/L			12/20/16 19:59	14.29
Methylcyclohexane	14	U	14	6.4	ug/L			12/20/16 19:59	14.29
Methylene Chloride	**19**	**B**	14	7.6	ug/L			12/20/16 19:59	14.29
4-Methyl-2-pentanone (MIBK)	140	U	140	10	ug/L			12/20/16 19:59	14.29
Methyl tert-butyl ether	14	U	14	3.9	ug/L			12/20/16 19:59	14.29
Styrene	14	U	14	3.3	ug/L			12/20/16 19:59	14.29
1,1,2,2-Tetrachloroethane	14	U	14	4.6	ug/L			12/20/16 19:59	14.29
Tetrachloroethene	14	U	14	4.3	ug/L			12/20/16 19:59	14.29
Toluene	14	U	14	3.3	ug/L			12/20/16 19:59	14.29
trans-1,2-Dichloroethene	14	U	14	4.1	ug/L			12/20/16 19:59	14.29
trans-1,3-Dichloropropene	14	U	14	4.4	ug/L			12/20/16 19:59	14.29
1,2,4-Trichlorobenzene	14	U	14	3.9	ug/L			12/20/16 19:59	14.29
1,1,1-Trichloroethane	14	U	14	3.3	ug/L			12/20/16 19:59	14.29
1,1,2-Trichloroethane	14	U	14	4.9	ug/L			12/20/16 19:59	14.29
Trichloroethene	14	U	14	4.7	ug/L			12/20/16 19:59	14.29
Trichlorofluoromethane	14	U	14	7.1	ug/L			12/20/16 19:59	14.29
1,1,2-Trichloro-1,2,2-trifluoroethane	14	U	14	5.9	ug/L			12/20/16 19:59	14.29
Vinyl chloride	14	U	14	6.4	ug/L			12/20/16 19:59	14.29
Xylenes, Total	29	U	29	3.4	ug/L			12/20/16 19:59	14.29

Client Sample ID: 20161209UAW12-20V14N
Date Collected: 12/09/16 10:10
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*12/20/16 19:59*	*14.29*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*12/20/16 19:59*	*14.29*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 132*		*12/20/16 19:59*	*14.29*
Toluene-d8 (Surr)	*91*		*73 - 124*		*12/20/16 19:59*	*14.29*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.22	U	0.22	0.048	ug/L		12/15/16 10:52	12/21/16 15:32	1
Acenaphthylene	0.22	U	0.22	0.022	ug/L		12/15/16 10:52	12/21/16 15:32	1
Acetophenone	1.1	U	1.1	0.15	ug/L		12/15/16 10:52	12/21/16 15:32	1
Aniline	**1.5**	**J**	5.4	0.24	ug/L		12/15/16 10:52	12/21/16 15:32	1
Anthracene	0.22	U	0.22	0.034	ug/L		12/15/16 10:52	12/21/16 15:32	1
Atrazine	2.2	U	2.2	0.13	ug/L		12/15/16 10:52	12/21/16 15:32	1
Benzaldehyde	2.2	U	2.2	0.32	ug/L		12/15/16 10:52	12/21/16 15:32	1
Benzo[a]anthracene	0.22	U	0.22	0.064	ug/L		12/15/16 10:52	12/21/16 15:32	1
Benzo[b]fluoranthene	0.22	U	0.22	0.064	ug/L		12/15/16 10:52	12/21/16 15:32	1
Benzo[k]fluoranthene	0.22	U	0.22	0.052	ug/L		12/15/16 10:52	12/21/16 15:32	1
Benzo[g,h,i]perylene	0.22	U	0.22	0.054	ug/L		12/15/16 10:52	12/21/16 15:32	1
Benzo[a]pyrene	0.22	U	0.22	0.033	ug/L		12/15/16 10:52	12/21/16 15:32	1
Butyl benzyl phthalate	1.1	U	1.1	0.23	ug/L		12/15/16 10:52	12/21/16 15:32	1
1,1'-Biphenyl	1.1	U	1.1	0.13	ug/L		12/15/16 10:52	12/21/16 15:32	1
Bis(2-chloroethoxy)methane	1.1	U	1.1	0.040	ug/L		12/15/16 10:52	12/21/16 15:32	1
Bis(2-chloroethyl)ether	1.1	U	1.1	0.21	ug/L		12/15/16 10:52	12/21/16 15:32	1
Bis(2-ethylhexyl) phthalate	2.2	U	2.2	1.7	ug/L		12/15/16 10:52	12/21/16 15:32	1
4-Bromophenyl phenyl ether	2.2	U	2.2	0.38	ug/L		12/15/16 10:52	12/21/16 15:32	1
Caprolactam	**4.8**	**J ***	5.4	0.40	ug/L		12/15/16 10:52	12/21/16 15:32	1
Carbazole	1.1	U	1.1	0.11	ug/L		12/15/16 10:52	12/21/16 15:32	1
4-Chloroaniline	2.2	U	2.2	0.16	ug/L		12/15/16 10:52	12/21/16 15:32	1
4-Chloro-3-methylphenol	2.2	U	2.2	0.30	ug/L		12/15/16 10:52	12/21/16 15:32	1
2-Chloronaphthalene	1.1	U	1.1	0.13	ug/L		12/15/16 10:52	12/21/16 15:32	1
2-Chlorophenol	1.1	U	1.1	0.14	ug/L		12/15/16 10:52	12/21/16 15:32	1
4-Chlorophenyl phenyl ether	2.2	U	2.2	0.32	ug/L		12/15/16 10:52	12/21/16 15:32	1
Chrysene	0.22	U	0.22	0.038	ug/L		12/15/16 10:52	12/21/16 15:32	1
2-Methylnaphthalene	0.22	U	0.22	0.040	ug/L		12/15/16 10:52	12/21/16 15:32	1
3 & 4 Methylphenol	2.2	U	2.2	0.37	ug/L		12/15/16 10:52	12/21/16 15:32	1
Dibenz(a,h)anthracene	0.22	U	0.22	0.043	ug/L		12/15/16 10:52	12/21/16 15:32	1
Dibenzofuran	1.1	U	1.1	0.15	ug/L		12/15/16 10:52	12/21/16 15:32	1
3,3'-Dichlorobenzidine	5.4	U	5.4	0.38	ug/L		12/15/16 10:52	12/21/16 15:32	1
2,4-Dichlorophenol	2.2	U	2.2	0.32	ug/L		12/15/16 10:52	12/21/16 15:32	1
Diethyl phthalate	1.1	U	1.1	0.14	ug/L		12/15/16 10:52	12/21/16 15:32	1
2,4-Dimethylphenol	2.2	U	2.2	0.34	ug/L		12/15/16 10:52	12/21/16 15:32	1
Dimethyl phthalate	1.1	U	1.1	0.11	ug/L		12/15/16 10:52	12/21/16 15:32	1
4,6-Dinitro-2-methylphenol	5.4	U	5.4	0.57	ug/L		12/15/16 10:52	12/21/16 15:32	1
2,4-Dinitrophenol	43	U	43	6.7	ug/L		12/15/16 10:52	12/21/16 15:32	1
2,4-Dinitrotoluene	5.4	U	5.4	0.28	ug/L		12/15/16 10:52	12/21/16 15:32	1
Di-n-butyl phthalate	**0.68**	**J B**	1.1	0.43	ug/L		12/15/16 10:52	12/21/16 15:32	1
Di-n-octyl phthalate	1.1	U	1.1	0.40	ug/L		12/15/16 10:52	12/21/16 15:32	1
Fluoranthene	0.22	U	0.22	0.029	ug/L		12/15/16 10:52	12/21/16 15:32	1
Fluorene	0.22	U	0.22	0.037	ug/L		12/15/16 10:52	12/21/16 15:32	1
Hexachlorobenzene	1.1	U	1.1	0.13	ug/L		12/15/16 10:52	12/21/16 15:32	1

Client Sample ID: 20161209UAW12-20V14N
Date Collected: 12/09/16 10:10
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.1	U	1.1	0.15	ug/L		12/15/16 10:52	12/21/16 15:32	1
Hexachlorocyclopentadiene	11	U	11	2.7	ug/L		12/15/16 10:52	12/21/16 15:32	1
Hexachloroethane	1.1	U	1.1	0.24	ug/L		12/15/16 10:52	12/21/16 15:32	1
Indeno[1,2,3-cd]pyrene	0.22	U	0.22	0.052	ug/L		12/15/16 10:52	12/21/16 15:32	1
Isophorone	1.1	U	1.1	0.046	ug/L		12/15/16 10:52	12/21/16 15:32	1
2-Methylphenol	1.1	U	1.1	0.20	ug/L		12/15/16 10:52	12/21/16 15:32	1
Naphthalene	0.22	U	0.22	0.047	ug/L		12/15/16 10:52	12/21/16 15:32	1
2-Nitroaniline	2.2	U	2.2	0.33	ug/L		12/15/16 10:52	12/21/16 15:32	1
3-Nitroaniline	2.2	U *	2.2	0.29	ug/L		12/15/16 10:52	12/21/16 15:32	1
4-Nitroaniline	2.2	U	2.2	0.26	ug/L		12/15/16 10:52	12/21/16 15:32	1
Nitrobenzene	1.1	U	1.1	0.13	ug/L		12/15/16 10:52	12/21/16 15:32	1
2-Nitrophenol	2.2	U	2.2	0.23	ug/L		12/15/16 10:52	12/21/16 15:32	1
4-Nitrophenol	5.4	U	5.4	0.64	ug/L		12/15/16 10:52	12/21/16 15:32	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.12	ug/L		12/15/16 10:52	12/21/16 15:32	1
N-Nitrosodi-n-propylamine	1.1	U	1.1	0.17	ug/L		12/15/16 10:52	12/21/16 15:32	1
2,2'-oxybis(1-chloropropane)	1.1	U	1.1	0.20	ug/L		12/15/16 10:52	12/21/16 15:32	1
Pentachlorophenol	43	U	43	5.9	ug/L		12/15/16 10:52	12/21/16 15:32	1
Phenanthrene	0.22	U	0.22	0.034	ug/L		12/15/16 10:52	12/21/16 15:32	1
Phenol	1.1	U	1.1	0.16	ug/L		12/15/16 10:52	12/21/16 15:32	1
Pyrene	0.22	U	0.22	0.030	ug/L		12/15/16 10:52	12/21/16 15:32	1
2,4,5-Trichlorophenol	5.4	U	5.4	0.40	ug/L		12/15/16 10:52	12/21/16 15:32	1
2,4,6-Trichlorophenol	5.4	U	5.4	0.28	ug/L		12/15/16 10:52	12/21/16 15:32	1
2,6-Dinitrotoluene	5.4	U	5.4	0.26	ug/L		12/15/16 10:52	12/21/16 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*44 - 120*	*12/15/16 10:52*	*12/21/16 15:32*	*1*
2-Fluorophenol (Surr)	*28*		*26 - 120*	*12/15/16 10:52*	*12/21/16 15:32*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*36 - 120*	*12/15/16 10:52*	*12/21/16 15:32*	*1*
Nitrobenzene-d5 (Surr)	*76*		*44 - 120*	*12/15/16 10:52*	*12/21/16 15:32*	*1*
Phenol-d5 (Surr)	*55*		*16 - 120*	*12/15/16 10:52*	*12/21/16 15:32*	*1*
Terphenyl-d14 (Surr)	*86*		*43 - 120*	*12/15/16 10:52*	*12/21/16 15:32*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/12/16 14:00	12/14/16 04:10	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/14/16 04:10	1
Barium	**44**	**J**	200	2.4	ug/L		12/12/16 14:00	12/14/16 04:10	1
Beryllium	5.0	U ^	5.0	0.21	ug/L		12/12/16 14:00	12/14/16 16:29	1
Calcium	**590000**		5000	710	ug/L		12/12/16 14:00	12/14/16 04:10	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/14/16 04:10	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/12/16 14:00	12/14/16 04:10	1
Chromium	**19**		5.0	0.55	ug/L		12/12/16 14:00	12/14/16 04:10	1
Copper	25	U	25	3.9	ug/L		12/12/16 14:00	12/14/16 04:10	1
Iron	**240**		100	25	ug/L		12/12/16 14:00	12/14/16 04:10	1
Potassium	**7400**	**B**	5000	70	ug/L		12/12/16 14:00	12/14/16 04:10	1
Magnesium	**38000**		5000	230	ug/L		12/12/16 14:00	12/14/16 04:10	1
Manganese	**2900**		15	5.1	ug/L		12/12/16 14:00	12/14/16 04:10	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/14/16 04:10	1
Sodium	**320000**	**B**	5000	330	ug/L		12/12/16 14:00	12/14/16 04:10	1
Nickel	**7.7**	**J**	40	1.6	ug/L		12/12/16 14:00	12/14/16 04:10	1

Client Sample ID: 20161209UAW12-20V14N
Date Collected: 12/09/16 10:10
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-6
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/14/16 04:10	1
Zinc	50	U	50	16	ug/L		12/12/16 14:00	12/14/16 04:10	1
Arsenic	**6.3**	**J**	10	3.3	ug/L		12/12/16 14:00	12/14/16 04:10	1
Lead	**7.1**		5.0	1.9	ug/L		12/12/16 14:00	12/14/16 04:10	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/14/16 04:10	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/14/16 04:10	1
Tin	**450**		100	1.8	ug/L		12/12/16 14:00	12/14/16 04:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 14:17	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: 20161209UAW05-20V14N
Date Collected: 12/09/16 12:30
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**16**	**J**	20	3.5	ug/L			12/22/16 13:05	2
Benzene	**9.5**		2.0	0.56	ug/L			12/22/16 13:05	2
Bromodichloromethane	2.0	U	2.0	0.60	ug/L			12/22/16 13:05	2
Bromoform	2.0	U	2.0	0.86	ug/L			12/22/16 13:05	2
Bromomethane	2.0	U	2.0	0.84	ug/L			12/22/16 13:05	2
2-Butanone (MEK)	20	U	20	2.0	ug/L			12/22/16 13:05	2
Carbon disulfide	**3.3**		2.0	0.68	ug/L			12/22/16 13:05	2
Carbon tetrachloride	2.0	U	2.0	0.70	ug/L			12/22/16 13:05	2
Chlorobenzene	**570**		20	6.4	ug/L			12/21/16 14:43	20
Chloroethane	2.0	U	2.0	0.82	ug/L			12/22/16 13:05	2
Chloroform	2.0	U	2.0	0.62	ug/L			12/22/16 13:05	2
Chloromethane	2.0	U	2.0	0.86	ug/L			12/22/16 13:05	2
cis-1,2-Dichloroethene	2.0	U	2.0	0.60	ug/L			12/22/16 13:05	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.52	ug/L			12/22/16 13:05	2
Cyclohexane	**1.2**	**J**	2.0	0.88	ug/L			12/22/16 13:05	2
Dibromochloromethane	2.0	U	2.0	0.50	ug/L			12/22/16 13:05	2
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	0.94	ug/L			12/22/16 13:05	2
1,2-Dibromoethane	2.0	U	2.0	0.46	ug/L			12/22/16 13:05	2
1,2-Dichlorobenzene	**410**		20	5.2	ug/L			12/21/16 14:43	20
1,3-Dichlorobenzene	**16**		2.0	0.64	ug/L			12/22/16 13:05	2
1,4-Dichlorobenzene	**110**		20	4.6	ug/L			12/21/16 14:43	20
Dichlorodifluoromethane	2.0	U	2.0	1.0	ug/L			12/22/16 13:05	2
1,1-Dichloroethane	2.0	U	2.0	0.50	ug/L			12/22/16 13:05	2
1,2-Dichloroethane	2.0	U	2.0	0.60	ug/L			12/22/16 13:05	2
1,1-Dichloroethene	2.0	U	2.0	0.54	ug/L			12/22/16 13:05	2
1,2-Dichloropropane	2.0	U	2.0	0.60	ug/L			12/22/16 13:05	2
Ethylbenzene	**11**		2.0	0.52	ug/L			12/22/16 13:05	2
2-Hexanone	20	U	20	2.5	ug/L			12/22/16 13:05	2
Isopropylbenzene	**0.92**	**J**	2.0	0.42	ug/L			12/22/16 13:05	2
Methyl acetate	20	U	20	2.9	ug/L			12/22/16 13:05	2
Methylcyclohexane	**4.0**		2.0	0.90	ug/L			12/22/16 13:05	2
Methylene Chloride	**2.0**	**B**	2.0	1.1	ug/L			12/22/16 13:05	2
4-Methyl-2-pentanone (MIBK)	**5.9**	**J**	20	1.4	ug/L			12/22/16 13:05	2
Methyl tert-butyl ether	2.0	U	2.0	0.54	ug/L			12/22/16 13:05	2
Styrene	2.0	U	2.0	0.46	ug/L			12/22/16 13:05	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.64	ug/L			12/22/16 13:05	2
Tetrachloroethene	2.0	U	2.0	0.60	ug/L			12/22/16 13:05	2
Toluene	**4.9**		2.0	0.46	ug/L			12/22/16 13:05	2
trans-1,2-Dichloroethene	2.0	U	2.0	0.58	ug/L			12/22/16 13:05	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.62	ug/L			12/22/16 13:05	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.54	ug/L			12/22/16 13:05	2
1,1,1-Trichloroethane	2.0	U	2.0	0.46	ug/L			12/22/16 13:05	2
1,1,2-Trichloroethane	2.0	U	2.0	0.68	ug/L			12/22/16 13:05	2
Trichloroethene	2.0	U	2.0	0.66	ug/L			12/22/16 13:05	2
Trichlorofluoromethane	2.0	U	2.0	1.0	ug/L			12/22/16 13:05	2
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	0.82	ug/L			12/22/16 13:05	2
Vinyl chloride	2.0	U	2.0	0.90	ug/L			12/22/16 13:05	2
Xylenes, Total	**19**		4.0	0.48	ug/L			12/22/16 13:05	2

Client Sample ID: 20161209UAW05-20V14N

Date Collected: 12/09/16 12:30
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-7

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*12/21/16 14:43*	*20*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*12/22/16 13:05*	*2*
Dibromofluoromethane (Surr)	*118*		*80 - 120*		*12/21/16 14:43*	*20*
Dibromofluoromethane (Surr)	*87*		*80 - 120*		*12/22/16 13:05*	*2*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 132*		*12/21/16 14:43*	*20*
1,2-Dichloroethane-d4 (Surr)	*81*		*63 - 132*		*12/22/16 13:05*	*2*
Toluene-d8 (Surr)	*93*		*73 - 124*		*12/21/16 14:43*	*20*
Toluene-d8 (Surr)	*79*		*73 - 124*		*12/22/16 13:05*	*2*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21	U	0.21	0.046	ug/L		12/15/16 10:52	12/21/16 15:56	1
Acenaphthylene	0.21	U	0.21	0.021	ug/L		12/15/16 10:52	12/21/16 15:56	1
Acetophenone	1.0	U	1.0	0.15	ug/L		12/15/16 10:52	12/21/16 15:56	1
Aniline	**16**		5.2	0.23	ug/L		12/15/16 10:52	12/21/16 15:56	1
Anthracene	0.21	U	0.21	0.032	ug/L		12/15/16 10:52	12/21/16 15:56	1
Atrazine	2.1	U	2.1	0.12	ug/L		12/15/16 10:52	12/21/16 15:56	1
Benzaldehyde	**9.2**		2.1	0.31	ug/L		12/15/16 10:52	12/21/16 15:56	1
Benzo[a]anthracene	0.21	U	0.21	0.061	ug/L		12/15/16 10:52	12/21/16 15:56	1
Benzo[b]fluoranthene	0.21	U	0.21	0.061	ug/L		12/15/16 10:52	12/21/16 15:56	1
Benzo[k]fluoranthene	0.21	U	0.21	0.050	ug/L		12/15/16 10:52	12/21/16 15:56	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.052	ug/L		12/15/16 10:52	12/21/16 15:56	1
Benzo[a]pyrene	0.21	U	0.21	0.031	ug/L		12/15/16 10:52	12/21/16 15:56	1
Butyl benzyl phthalate	1.0	U	1.0	0.23	ug/L		12/15/16 10:52	12/21/16 15:56	1
1,1'-Biphenyl	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/21/16 15:56	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.039	ug/L		12/15/16 10:52	12/21/16 15:56	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.20	ug/L		12/15/16 10:52	12/21/16 15:56	1
Bis(2-ethylhexyl) phthalate	2.1	U	2.1	1.6	ug/L		12/15/16 10:52	12/21/16 15:56	1
4-Bromophenyl phenyl ether	2.1	U	2.1	0.36	ug/L		12/15/16 10:52	12/21/16 15:56	1
Caprolactam	5.2	U *	5.2	0.39	ug/L		12/15/16 10:52	12/21/16 15:56	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/21/16 15:56	1
4-Chloroaniline	2.1	U	2.1	0.16	ug/L		12/15/16 10:52	12/21/16 15:56	1
4-Chloro-3-methylphenol	2.1	U	2.1	0.29	ug/L		12/15/16 10:52	12/21/16 15:56	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 15:56	1
2-Chlorophenol	**3.0**		1.0	0.14	ug/L		12/15/16 10:52	12/21/16 15:56	1
4-Chlorophenyl phenyl ether	2.1	U	2.1	0.31	ug/L		12/15/16 10:52	12/21/16 15:56	1
Chrysene	0.21	U	0.21	0.036	ug/L		12/15/16 10:52	12/21/16 15:56	1
2-Methylnaphthalene	0.21	U	0.21	0.039	ug/L		12/15/16 10:52	12/21/16 15:56	1
3 & 4 Methylphenol	2.1	U	2.1	0.35	ug/L		12/15/16 10:52	12/21/16 15:56	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.042	ug/L		12/15/16 10:52	12/21/16 15:56	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/21/16 15:56	1
3,3'-Dichlorobenzidine	5.2	U	5.2	0.37	ug/L		12/15/16 10:52	12/21/16 15:56	1
2,4-Dichlorophenol	2.1	U	2.1	0.31	ug/L		12/15/16 10:52	12/21/16 15:56	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/21/16 15:56	1
2,4-Dimethylphenol	2.1	U	2.1	0.33	ug/L		12/15/16 10:52	12/21/16 15:56	1
Dimethyl phthalate	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/21/16 15:56	1
4,6-Dinitro-2-methylphenol	5.2	U	5.2	0.55	ug/L		12/15/16 10:52	12/21/16 15:56	1
2,4-Dinitrophenol	42	U	42	6.4	ug/L		12/15/16 10:52	12/21/16 15:56	1
2,4-Dinitrotoluene	5.2	U	5.2	0.27	ug/L		12/15/16 10:52	12/21/16 15:56	1
Di-n-butyl phthalate	**0.53**	**J B**	1.0	0.41	ug/L		12/15/16 10:52	12/21/16 15:56	1

Client Sample ID: 20161209UAW05-20V14N
Date Collected: 12/09/16 12:30
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-7
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	1.0	U	1.0	0.38	ug/L		12/15/16 10:52	12/21/16 15:56	1
Fluoranthene	0.21	U	0.21	0.028	ug/L		12/15/16 10:52	12/21/16 15:56	1
Fluorene	0.21	U	0.21	0.035	ug/L		12/15/16 10:52	12/21/16 15:56	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 15:56	1
Hexachlorobutadiene	1.0	U	1.0	0.15	ug/L		12/15/16 10:52	12/21/16 15:56	1
Hexachlorocyclopentadiene	10	U	10	2.6	ug/L		12/15/16 10:52	12/21/16 15:56	1
Hexachloroethane	1.0	U	1.0	0.23	ug/L		12/15/16 10:52	12/21/16 15:56	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.050	ug/L		12/15/16 10:52	12/21/16 15:56	1
Isophorone	1.0	U	1.0	0.044	ug/L		12/15/16 10:52	12/21/16 15:56	1
2-Methylphenol	1.0	U	1.0	0.20	ug/L		12/15/16 10:52	12/21/16 15:56	1
Naphthalene	0.21	U	0.21	0.045	ug/L		12/15/16 10:52	12/21/16 15:56	1
2-Nitroaniline	2.1	U	2.1	0.32	ug/L		12/15/16 10:52	12/21/16 15:56	1
3-Nitroaniline	2.1	U *	2.1	0.28	ug/L		12/15/16 10:52	12/21/16 15:56	1
4-Nitroaniline	2.1	U	2.1	0.25	ug/L		12/15/16 10:52	12/21/16 15:56	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 15:56	1
2-Nitrophenol	2.1	U	2.1	0.22	ug/L		12/15/16 10:52	12/21/16 15:56	1
4-Nitrophenol	5.2	U	5.2	0.61	ug/L		12/15/16 10:52	12/21/16 15:56	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 15:56	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.17	ug/L		12/15/16 10:52	12/21/16 15:56	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.19	ug/L		12/15/16 10:52	12/21/16 15:56	1
Pentachlorophenol	42	U	42	5.7	ug/L		12/15/16 10:52	12/21/16 15:56	1
Phenanthrene	0.21	U	0.21	0.032	ug/L		12/15/16 10:52	12/21/16 15:56	1
Phenol	**2.4**		1.0	0.16	ug/L		12/15/16 10:52	12/21/16 15:56	1
Pyrene	0.21	U	0.21	0.029	ug/L		12/15/16 10:52	12/21/16 15:56	1
2,4,5-Trichlorophenol	5.2	U	5.2	0.38	ug/L		12/15/16 10:52	12/21/16 15:56	1
2,4,6-Trichlorophenol	5.2	U	5.2	0.27	ug/L		12/15/16 10:52	12/21/16 15:56	1
2,6-Dinitrotoluene	5.2	U	5.2	0.24	ug/L		12/15/16 10:52	12/21/16 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*44 - 120*	*12/15/16 10:52*	*12/21/16 15:56*	*1*
2-Fluorophenol (Surr)	*99*		*26 - 120*	*12/15/16 10:52*	*12/21/16 15:56*	*1*
2,4,6-Tribromophenol (Surr)	*53*		*36 - 120*	*12/15/16 10:52*	*12/21/16 15:56*	*1*
Nitrobenzene-d5 (Surr)	*77*		*44 - 120*	*12/15/16 10:52*	*12/21/16 15:56*	*1*
Phenol-d5 (Surr)	*82*		*16 - 120*	*12/15/16 10:52*	*12/21/16 15:56*	*1*
Terphenyl-d14 (Surr)	*84*		*43 - 120*	*12/15/16 10:52*	*12/21/16 15:56*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**130**	**J**	200	40	ug/L		12/12/16 14:00	12/14/16 04:14	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/14/16 04:14	1
Barium	**80**	**J**	200	2.4	ug/L		12/12/16 14:00	12/14/16 04:14	1
Beryllium	5.0	U ^	5.0	0.21	ug/L		12/12/16 14:00	12/14/16 16:34	1
Calcium	**220000**		5000	710	ug/L		12/12/16 14:00	12/14/16 04:14	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/14/16 04:14	1
Cobalt	**6.3**	**J**	7.0	0.84	ug/L		12/12/16 14:00	12/14/16 04:14	1
Chromium	**4500**		5.0	0.55	ug/L		12/12/16 14:00	12/14/16 04:14	1
Copper	25	U	25	3.9	ug/L		12/12/16 14:00	12/14/16 04:14	1
Iron	**14000**		100	25	ug/L		12/12/16 14:00	12/14/16 04:14	1
Potassium	**6400**	**B**	5000	70	ug/L		12/12/16 14:00	12/14/16 04:14	1
Magnesium	**71000**		5000	230	ug/L		12/12/16 14:00	12/14/16 04:14	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: 20161209UAW05-20V14N
Date Collected: 12/09/16 12:30
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-7
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**430**		15	5.1	ug/L		12/12/16 14:00	12/14/16 04:14	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/14/16 04:14	1
Sodium	**580000**	**B**	25000	1700	ug/L		12/12/16 14:00	12/14/16 16:38	5
Nickel	**630**		40	1.6	ug/L		12/12/16 14:00	12/14/16 04:14	1
Vanadium	**24**		10	4.4	ug/L		12/12/16 14:00	12/14/16 04:14	1
Zinc	50	U	50	16	ug/L		12/12/16 14:00	12/14/16 04:14	1
Arsenic	**15**		10	3.3	ug/L		12/12/16 14:00	12/14/16 04:14	1
Lead	**3.7**	**J**	5.0	1.9	ug/L		12/12/16 14:00	12/14/16 04:14	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/14/16 04:14	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/14/16 04:14	1
Tin	**2200**		100	1.8	ug/L		12/12/16 14:00	12/14/16 04:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 14:19	1

Client Sample ID: 20161209UAW06-20V16N — **Lab Sample ID: 240-73181-8**
Date Collected: 12/09/16 14:30 — **Matrix: Water**
Date Received: 12/10/16 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/22/16 13:28	1
Benzene	**0.60**	**J**	1.0	0.28	ug/L			12/22/16 13:28	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/22/16 13:28	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/22/16 13:28	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/22/16 13:28	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/22/16 13:28	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/22/16 13:28	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/22/16 13:28	1
Chlorobenzene	**84**		3.3	1.1	ug/L			12/22/16 12:20	3.33
Chloroethane	1.0	U	1.0	0.41	ug/L			12/22/16 13:28	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/22/16 13:28	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/22/16 13:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/22/16 13:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/22/16 13:28	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/22/16 13:28	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/22/16 13:28	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/22/16 13:28	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/22/16 13:28	1
1,2-Dichlorobenzene	**39**		1.0	0.26	ug/L			12/22/16 13:28	1
1,3-Dichlorobenzene	**1.5**		1.0	0.32	ug/L			12/22/16 13:28	1
1,4-Dichlorobenzene	**8.9**		1.0	0.23	ug/L			12/22/16 13:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/22/16 13:28	1
1,1-Dichloroethane	**0.47**	**J**	1.0	0.25	ug/L			12/22/16 13:28	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/22/16 13:28	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/22/16 13:28	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/22/16 13:28	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/22/16 13:28	1
2-Hexanone	10	U	10	1.2	ug/L			12/22/16 13:28	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/22/16 13:28	1
Methyl acetate	10	U	10	1.4	ug/L			12/22/16 13:28	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/22/16 13:28	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/22/16 13:28	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/22/16 13:28	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/22/16 13:28	1
Styrene	1.0	U	1.0	0.23	ug/L			12/22/16 13:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/22/16 13:28	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/22/16 13:28	1
Toluene	**0.41**	**J**	1.0	0.23	ug/L			12/22/16 13:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/22/16 13:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/22/16 13:28	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/22/16 13:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/22/16 13:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/22/16 13:28	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/22/16 13:28	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/22/16 13:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/22/16 13:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/22/16 13:28	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/22/16 13:28	1

Client Sample ID: 20161209UAW06-20V16N — **Lab Sample ID: 240-73181-8**
Date Collected: 12/09/16 14:30 — **Matrix: Water**
Date Received: 12/10/16 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*12/22/16 12:20*	*3.33*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*12/22/16 13:28*	*1*
Dibromofluoromethane (Surr)	*82*		*80 - 120*		*12/22/16 12:20*	*3.33*
Dibromofluoromethane (Surr)	*84*		*80 - 120*		*12/22/16 13:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*77*		*63 - 132*		*12/22/16 12:20*	*3.33*
1,2-Dichloroethane-d4 (Surr)	*79*		*63 - 132*		*12/22/16 13:28*	*1*
Toluene-d8 (Surr)	*76*		*73 - 124*		*12/22/16 12:20*	*3.33*
Toluene-d8 (Surr)	*78*		*73 - 124*		*12/22/16 13:28*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.28**		0.20	0.044	ug/L		12/15/16 10:52	12/21/16 16:21	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/15/16 10:52	12/21/16 16:21	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/21/16 16:21	1
Aniline	5.0	U	5.0	0.22	ug/L		12/15/16 10:52	12/21/16 16:21	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/15/16 10:52	12/21/16 16:21	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/15/16 10:52	12/21/16 16:21	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/15/16 10:52	12/21/16 16:21	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/15/16 10:52	12/21/16 16:21	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/15/16 10:52	12/21/16 16:21	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/15/16 10:52	12/21/16 16:21	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/15/16 10:52	12/21/16 16:21	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/15/16 10:52	12/21/16 16:21	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/15/16 10:52	12/21/16 16:21	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 16:21	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/15/16 10:52	12/21/16 16:21	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/15/16 10:52	12/21/16 16:21	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/15/16 10:52	12/21/16 16:21	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/15/16 10:52	12/21/16 16:21	1
Caprolactam	5.0	U *	5.0	0.37	ug/L		12/15/16 10:52	12/21/16 16:21	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/21/16 16:21	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/15/16 10:52	12/21/16 16:21	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/15/16 10:52	12/21/16 16:21	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 16:21	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/21/16 16:21	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/15/16 10:52	12/21/16 16:21	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/15/16 10:52	12/21/16 16:21	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/15/16 10:52	12/21/16 16:21	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/15/16 10:52	12/21/16 16:21	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/15/16 10:52	12/21/16 16:21	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/21/16 16:21	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/15/16 10:52	12/21/16 16:21	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/15/16 10:52	12/21/16 16:21	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/21/16 16:21	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/15/16 10:52	12/21/16 16:21	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/15/16 10:52	12/21/16 16:21	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/15/16 10:52	12/21/16 16:21	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/15/16 10:52	12/21/16 16:21	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/15/16 10:52	12/21/16 16:21	1
Di-n-butyl phthalate	**0.48**	**J B**	1.0	0.40	ug/L		12/15/16 10:52	12/21/16 16:21	1

Client Sample ID: 20161209UAW06-20V16N
Date Collected: 12/09/16 14:30
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-8
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/15/16 10:52	12/21/16 16:21	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/15/16 10:52	12/21/16 16:21	1
Fluorene	**0.32**		0.20	0.034	ug/L		12/15/16 10:52	12/21/16 16:21	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 16:21	1
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/21/16 16:21	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/15/16 10:52	12/21/16 16:21	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/15/16 10:52	12/21/16 16:21	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/15/16 10:52	12/21/16 16:21	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/15/16 10:52	12/21/16 16:21	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/15/16 10:52	12/21/16 16:21	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/15/16 10:52	12/21/16 16:21	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/15/16 10:52	12/21/16 16:21	1
3-Nitroaniline	2.0	U *	2.0	0.27	ug/L		12/15/16 10:52	12/21/16 16:21	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/15/16 10:52	12/21/16 16:21	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/21/16 16:21	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/15/16 10:52	12/21/16 16:21	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/15/16 10:52	12/21/16 16:21	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/21/16 16:21	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/15/16 10:52	12/21/16 16:21	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/15/16 10:52	12/21/16 16:21	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/15/16 10:52	12/21/16 16:21	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/15/16 10:52	12/21/16 16:21	1
Phenol	**0.57**	**J**	1.0	0.15	ug/L		12/15/16 10:52	12/21/16 16:21	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/15/16 10:52	12/21/16 16:21	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/15/16 10:52	12/21/16 16:21	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/15/16 10:52	12/21/16 16:21	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/15/16 10:52	12/21/16 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*44 - 120*	*12/15/16 10:52*	*12/21/16 16:21*	*1*
2-Fluorophenol (Surr)	*74*		*26 - 120*	*12/15/16 10:52*	*12/21/16 16:21*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*36 - 120*	*12/15/16 10:52*	*12/21/16 16:21*	*1*
Nitrobenzene-d5 (Surr)	*76*		*44 - 120*	*12/15/16 10:52*	*12/21/16 16:21*	*1*
Phenol-d5 (Surr)	*68*		*16 - 120*	*12/15/16 10:52*	*12/21/16 16:21*	*1*
Terphenyl-d14 (Surr)	*89*		*43 - 120*	*12/15/16 10:52*	*12/21/16 16:21*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**270**		200	40	ug/L		12/12/16 14:00	12/14/16 04:19	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/14/16 04:19	1
Barium	**76**	**J**	200	2.4	ug/L		12/12/16 14:00	12/14/16 04:19	1
Beryllium	5.0	U ^	5.0	0.21	ug/L		12/12/16 14:00	12/14/16 16:42	1
Calcium	**180000**		5000	710	ug/L		12/12/16 14:00	12/14/16 04:19	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/14/16 04:19	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/12/16 14:00	12/14/16 04:19	1
Chromium	**3.0**	**J**	5.0	0.55	ug/L		12/12/16 14:00	12/14/16 04:19	1
Copper	25	U	25	3.9	ug/L		12/12/16 14:00	12/14/16 04:19	1
Iron	**720**		100	25	ug/L		12/12/16 14:00	12/14/16 04:19	1
Potassium	**4300**	**J B**	5000	70	ug/L		12/12/16 14:00	12/14/16 04:19	1
Magnesium	**32000**		5000	230	ug/L		12/12/16 14:00	12/14/16 04:19	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: 20161209UAW06-20V16N
Date Collected: 12/09/16 14:30
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-8
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**950**		15	5.1	ug/L		12/12/16 14:00	12/14/16 04:19	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/14/16 04:19	1
Sodium	**370000**	**B**	5000	330	ug/L		12/12/16 14:00	12/14/16 04:19	1
Nickel	**5.1**	**J**	40	1.6	ug/L		12/12/16 14:00	12/14/16 04:19	1
Vanadium	**4.7**	**J**	10	4.4	ug/L		12/12/16 14:00	12/14/16 04:19	1
Zinc	50	U	50	16	ug/L		12/12/16 14:00	12/14/16 04:19	1
Arsenic	**3.6**	**J**	10	3.3	ug/L		12/12/16 14:00	12/14/16 04:19	1
Lead	**4.1**	**J**	5.0	1.9	ug/L		12/12/16 14:00	12/14/16 04:19	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/14/16 04:19	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/14/16 04:19	1
Tin	**400**		100	1.8	ug/L		12/12/16 14:00	12/14/16 04:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 14:21	1

Client Sample ID: TRIP BLANK

Date Collected: 12/09/16 00:00
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/22/16 12:42	1
Benzene	1.0	U	1.0	0.28	ug/L			12/22/16 12:42	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/22/16 12:42	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/22/16 12:42	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/22/16 12:42	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/22/16 12:42	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/22/16 12:42	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/22/16 12:42	1
Chlorobenzene	**0.36**	**J**	1.0	0.32	ug/L			12/22/16 12:42	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/22/16 12:42	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/22/16 12:42	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/22/16 12:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/22/16 12:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/22/16 12:42	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/22/16 12:42	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/22/16 12:42	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/22/16 12:42	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/22/16 12:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/22/16 12:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/22/16 12:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/22/16 12:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/22/16 12:42	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/22/16 12:42	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/22/16 12:42	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/22/16 12:42	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/22/16 12:42	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/22/16 12:42	1
2-Hexanone	10	U	10	1.2	ug/L			12/22/16 12:42	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/22/16 12:42	1
Methyl acetate	10	U	10	1.4	ug/L			12/22/16 12:42	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/22/16 12:42	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/22/16 12:42	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/22/16 12:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/22/16 12:42	1
Styrene	1.0	U	1.0	0.23	ug/L			12/22/16 12:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/22/16 12:42	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/22/16 12:42	1
Toluene	1.0	U	1.0	0.23	ug/L			12/22/16 12:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/22/16 12:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/22/16 12:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/22/16 12:42	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/22/16 12:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/22/16 12:42	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/22/16 12:42	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/22/16 12:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/22/16 12:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/22/16 12:42	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/22/16 12:42	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: TRIP BLANK
Date Collected: 12/09/16 00:00
Date Received: 12/10/16 08:00

Lab Sample ID: 240-73181-9
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		73 - 120		12/22/16 12:42	1
Dibromofluoromethane (Surr)	85		80 - 120		12/22/16 12:42	1
1,2-Dichloroethane-d4 (Surr)	80		63 - 132		12/22/16 12:42	1
Toluene-d8 (Surr)	78		73 - 124		12/22/16 12:42	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(73-120)	(80-120)	(63-132)	(73-124)
240-73181-1	20161208UAW16-10V13N	111	113	105	96
240-73181-2	20161208UAW16-10V13FD	106	108	103	95
240-73181-3	20161209UAW13-20V14N	107	113	106	96
240-73181-4	20161209UAW08-20V15N	107	110	101	98
240-73181-5	20161209UAW07-20V15N	109	110	102	95
240-73181-5	20161209UAW07-20V15N	98	124 X	108	92
240-73181-6	20161209UAW12-20V14N	104	112	100	91
240-73181-7	20161209UAW05-20V14N	102	118	107	93
240-73181-7	20161209UAW05-20V14N	99	87	81	79
240-73181-8	20161209UAW06-20V16N	92	82	77	76
240-73181-8	20161209UAW06-20V16N	95	84	79	78
240-73181-9	TRIP BLANK	91	85	80	78
LCS 240-260221/4	Lab Control Sample	111	114	100	101
LCS 240-260435/4	Lab Control Sample	110	114	98	102
LCS 240-260596/4	Lab Control Sample	97	82	81	81
MB 240-260221/7	Method Blank	99	113	104	95
MB 240-260435/7	Method Blank	105	118	106	96
MB 240-260596/7	Method Blank	92	87	82	78

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(44-120)	(26-120)	(36-120)	(44-120)	(16-120)	(43-120)
240-73181-1	20161208UAW16-10V13N	71	68	71	77	66	86
240-73181-2	20161208UAW16-10V13FD	70	46	70	75	45	86
240-73181-3	20161209UAW13-20V14N	65	52	69	73	38	77
240-73181-4	20161209UAW08-20V15N	64	31	66	76	35	71
240-73181-5	20161209UAW07-20V15N	73	40	65	78	38	83
240-73181-6	20161209UAW12-20V14N	67	28	68	76	55	86
240-73181-7	20161209UAW05-20V14N	72	99	53	77	82	84
240-73181-8	20161209UAW06-20V16N	68	74	65	76	68	89
LCS 240-259604/18-A	Lab Control Sample	83	92	79	89	56	91
LCSD 240-259604/19-A	Lab Control Sample Dup	88	112	86	92	75	97
MB 240-259604/17-A	Method Blank	67	87	49	67	64	78

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-260221/7
Matrix: Water
Analysis Batch: 260221

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/20/16 11:02	1
Benzene	1.0	U	1.0	0.28	ug/L			12/20/16 11:02	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/20/16 11:02	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/20/16 11:02	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/20/16 11:02	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/20/16 11:02	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/20/16 11:02	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/20/16 11:02	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/16 11:02	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/20/16 11:02	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/20/16 11:02	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/20/16 11:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/20/16 11:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/20/16 11:02	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/20/16 11:02	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/20/16 11:02	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/20/16 11:02	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/20/16 11:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/20/16 11:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/20/16 11:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/20/16 11:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/20/16 11:02	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/20/16 11:02	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/20/16 11:02	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/20/16 11:02	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/20/16 11:02	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/20/16 11:02	1
2-Hexanone	10	U	10	1.2	ug/L			12/20/16 11:02	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/20/16 11:02	1
Methyl acetate	10	U	10	1.4	ug/L			12/20/16 11:02	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/20/16 11:02	1
Methylene Chloride	0.665	J	1.0	0.53	ug/L			12/20/16 11:02	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/20/16 11:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/20/16 11:02	1
Styrene	1.0	U	1.0	0.23	ug/L			12/20/16 11:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/20/16 11:02	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/20/16 11:02	1
Toluene	1.0	U	1.0	0.23	ug/L			12/20/16 11:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/20/16 11:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/20/16 11:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/20/16 11:02	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/20/16 11:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/20/16 11:02	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/20/16 11:02	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/20/16 11:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/20/16 11:02	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/20/16 11:02	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/20/16 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*12/20/16 11:02*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*12/20/16 11:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 132*		*12/20/16 11:02*	*1*
Toluene-d8 (Surr)	*95*		*73 - 124*		*12/20/16 11:02*	*1*

Lab Sample ID: LCS 240-260221/4
Matrix: Water
Analysis Batch: 260221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	14.7		ug/L		73	46 - 120
Benzene	10.0	10.3		ug/L		103	80 - 120
Bromodichloromethane	10.0	10.5		ug/L		105	76 - 125
Bromoform	10.0	9.96		ug/L		100	52 - 157
Bromomethane	10.0	5.38		ug/L		54	24 - 160
2-Butanone (MEK)	20.0	16.9		ug/L		84	54 - 122
Carbon disulfide	10.0	10.4		ug/L		104	58 - 160
Carbon tetrachloride	10.0	14.8		ug/L		148	69 - 149
Chlorobenzene	10.0	9.99		ug/L		100	80 - 120
Chloroethane	10.0	3.54		ug/L		35	24 - 147
Chloroform	10.0	10.7		ug/L		107	80 - 120
Chloromethane	10.0	8.78		ug/L		88	50 - 135
cis-1,2-Dichloroethene	10.0	10.6		ug/L		106	80 - 120
cis-1,3-Dichloropropene	10.0	9.24		ug/L		92	75 - 120
Cyclohexane	10.0	10.6		ug/L		106	66 - 135
1,2-Dibromo-3-Chloropropane	10.0	9.75		ug/L		97	46 - 140
1,2-Dibromoethane	10.0	9.72		ug/L		97	80 - 126
1,2-Dichlorobenzene	10.0	9.68		ug/L		97	80 - 120
1,3-Dichlorobenzene	10.0	9.25		ug/L		93	80 - 120
1,4-Dichlorobenzene	10.0	9.32		ug/L		93	80 - 120
Dichlorodifluoromethane	10.0	13.1		ug/L		131	32 - 140
1,1-Dichloroethane	10.0	9.86		ug/L		99	77 - 121
1,2-Dichloroethane	10.0	9.76		ug/L		98	76 - 130
1,1-Dichloroethene	10.0	10.4		ug/L		104	70 - 141
1,2-Dichloropropane	10.0	10.2		ug/L		102	79 - 121
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120
2-Hexanone	20.0	16.0		ug/L		80	56 - 124
Isopropylbenzene	10.0	11.2		ug/L		112	80 - 120
Methyl acetate	50.0	48.1		ug/L		96	65 - 124
Methylcyclohexane	10.0	10.8		ug/L		108	71 - 122
Methylene Chloride	10.0	11.6		ug/L		116	68 - 136
4-Methyl-2-pentanone (MIBK)	20.0	18.7		ug/L		94	60 - 131
Methyl tert-butyl ether	10.0	10.3		ug/L		103	75 - 126
Styrene	10.0	10.5		ug/L		105	80 - 120
1,1,2,2-Tetrachloroethane	10.0	7.25		ug/L		72	61 - 130
Tetrachloroethene	10.0	10.9		ug/L		109	80 - 123
Toluene	10.0	9.64		ug/L		96	80 - 121
trans-1,2-Dichloroethene	10.0	11.2		ug/L		112	80 - 123
trans-1,3-Dichloropropene	10.0	8.16		ug/L		82	65 - 120
1,2,4-Trichlorobenzene	10.0	11.4		ug/L		114	53 - 137
1,1,1-Trichloroethane	10.0	12.6		ug/L		126	79 - 133
1,1,2-Trichloroethane	10.0	9.49		ug/L		95	80 - 120
Trichloroethene	10.0	11.1		ug/L		111	80 - 122
Trichlorofluoromethane	10.0	14.6		ug/L		146	56 - 161

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260221/4
Matrix: Water
Analysis Batch: 260221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	13.3		ug/L		133	65 - 151
Vinyl chloride	10.0	8.40		ug/L		84	60 - 129
Xylenes, Total	20.0	20.3		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*
Dibromofluoromethane (Surr)	*114*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 132*
Toluene-d8 (Surr)	*101*		*73 - 124*

Lab Sample ID: MB 240-260435/7
Matrix: Water
Analysis Batch: 260435

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/21/16 12:28	1
Benzene	1.0	U	1.0	0.28	ug/L			12/21/16 12:28	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/21/16 12:28	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/21/16 12:28	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/21/16 12:28	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/21/16 12:28	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/21/16 12:28	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/21/16 12:28	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 12:28	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/21/16 12:28	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/21/16 12:28	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/21/16 12:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 12:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/21/16 12:28	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/21/16 12:28	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/21/16 12:28	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/21/16 12:28	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/21/16 12:28	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/21/16 12:28	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 12:28	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/21/16 12:28	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 12:28	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/21/16 12:28	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/21/16 12:28	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/21/16 12:28	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/21/16 12:28	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/16 12:28	1
2-Hexanone	10	U	10	1.2	ug/L			12/21/16 12:28	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/21/16 12:28	1
Methyl acetate	10	U	10	1.4	ug/L			12/21/16 12:28	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/21/16 12:28	1
Methylene Chloride	0.856	J	1.0	0.53	ug/L			12/21/16 12:28	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-260435/7
Matrix: Water
Analysis Batch: 260435

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/21/16 12:28	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/21/16 12:28	1
Styrene	1.0	U	1.0	0.23	ug/L			12/21/16 12:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/21/16 12:28	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 12:28	1
Toluene	1.0	U	1.0	0.23	ug/L			12/21/16 12:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/16 12:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/21/16 12:28	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/21/16 12:28	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/16 12:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/21/16 12:28	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/21/16 12:28	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 12:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/21/16 12:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/21/16 12:28	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/21/16 12:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*12/21/16 12:28*	*1*
Dibromofluoromethane (Surr)	*118*		*80 - 120*		*12/21/16 12:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 132*		*12/21/16 12:28*	*1*
Toluene-d8 (Surr)	*96*		*73 - 124*		*12/21/16 12:28*	*1*

Lab Sample ID: LCS 240-260435/4
Matrix: Water
Analysis Batch: 260435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	13.7		ug/L		69	46 - 120
Benzene	10.0	10.6		ug/L		106	80 - 120
Bromodichloromethane	10.0	10.6		ug/L		106	76 - 125
Bromoform	10.0	9.47		ug/L		95	52 - 157
Bromomethane	10.0	4.18		ug/L		42	24 - 160
2-Butanone (MEK)	20.0	15.9		ug/L		80	54 - 122
Carbon disulfide	10.0	11.3		ug/L		113	58 - 160
Carbon tetrachloride	10.0	15.0	*	ug/L		150	69 - 149
Chlorobenzene	10.0	10.1		ug/L		101	80 - 120
Chloroethane	10.0	2.73		ug/L		27	24 - 147
Chloroform	10.0	11.0		ug/L		110	80 - 120
Chloromethane	10.0	8.14		ug/L		81	50 - 135
cis-1,2-Dichloroethene	10.0	10.8		ug/L		108	80 - 120
cis-1,3-Dichloropropene	10.0	9.76		ug/L		98	75 - 120
Cyclohexane	10.0	10.9		ug/L		109	66 - 135
1,2-Dibromo-3-Chloropropane	10.0	9.12		ug/L		91	46 - 140
1,2-Dibromoethane	10.0	9.81		ug/L		98	80 - 126
1,2-Dichlorobenzene	10.0	9.62		ug/L		96	80 - 120
1,3-Dichlorobenzene	10.0	9.28		ug/L		93	80 - 120
1,4-Dichlorobenzene	10.0	9.39		ug/L		94	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260435/4
Matrix: Water
Analysis Batch: 260435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	12.6		ug/L		126	32 - 140
1,1-Dichloroethane	10.0	10.1		ug/L		101	77 - 121
1,2-Dichloroethane	10.0	10.0		ug/L		100	76 - 130
1,1-Dichloroethene	10.0	10.1		ug/L		101	70 - 141
1,2-Dichloropropane	10.0	10.6		ug/L		106	79 - 121
Ethylbenzene	10.0	10.3		ug/L		103	80 - 120
2-Hexanone	20.0	15.9		ug/L		80	56 - 124
Isopropylbenzene	10.0	11.2		ug/L		112	80 - 120
Methyl acetate	50.0	47.0		ug/L		94	65 - 124
Methylcyclohexane	10.0	11.0		ug/L		110	71 - 122
Methylene Chloride	10.0	11.6		ug/L		116	68 - 136
4-Methyl-2-pentanone (MIBK)	20.0	17.9		ug/L		90	60 - 131
Methyl tert-butyl ether	10.0	10.4		ug/L		104	75 - 126
Styrene	10.0	10.7		ug/L		107	80 - 120
1,1,2,2-Tetrachloroethane	10.0	7.18		ug/L		72	61 - 130
Tetrachloroethene	10.0	10.8		ug/L		108	80 - 123
Toluene	10.0	9.87		ug/L		99	80 - 121
trans-1,2-Dichloroethene	10.0	11.1		ug/L		111	80 - 123
trans-1,3-Dichloropropene	10.0	8.42		ug/L		84	65 - 120
1,2,4-Trichlorobenzene	10.0	10.5		ug/L		105	53 - 137
1,1,1-Trichloroethane	10.0	12.9		ug/L		129	79 - 133
1,1,2-Trichloroethane	10.0	9.39		ug/L		94	80 - 120
Trichloroethene	10.0	11.6		ug/L		116	80 - 122
Trichlorofluoromethane	10.0	12.8		ug/L		128	56 - 161
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.6		ug/L		126	65 - 151
Vinyl chloride	10.0	7.08		ug/L		71	60 - 129
Xylenes, Total	20.0	20.2		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*
Dibromofluoromethane (Surr)	*114*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 132*
Toluene-d8 (Surr)	*102*		*73 - 124*

Lab Sample ID: MB 240-260596/7
Matrix: Water
Analysis Batch: 260596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/22/16 11:08	1
Benzene	1.0	U	1.0	0.28	ug/L			12/22/16 11:08	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/22/16 11:08	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/22/16 11:08	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/22/16 11:08	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/22/16 11:08	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/22/16 11:08	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/22/16 11:08	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-260596/7
Matrix: Water
Analysis Batch: 260596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/22/16 11:08	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/22/16 11:08	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/22/16 11:08	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/22/16 11:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/22/16 11:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/22/16 11:08	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/22/16 11:08	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/22/16 11:08	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/22/16 11:08	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/22/16 11:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/22/16 11:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/22/16 11:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/22/16 11:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/22/16 11:08	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/22/16 11:08	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/22/16 11:08	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/22/16 11:08	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/22/16 11:08	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/22/16 11:08	1
2-Hexanone	10	U	10	1.2	ug/L			12/22/16 11:08	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/22/16 11:08	1
Methyl acetate	10	U	10	1.4	ug/L			12/22/16 11:08	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/22/16 11:08	1
Methylene Chloride	0.754	J	1.0	0.53	ug/L			12/22/16 11:08	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/22/16 11:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/22/16 11:08	1
Styrene	1.0	U	1.0	0.23	ug/L			12/22/16 11:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/22/16 11:08	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/22/16 11:08	1
Toluene	1.0	U	1.0	0.23	ug/L			12/22/16 11:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/22/16 11:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/22/16 11:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/22/16 11:08	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/22/16 11:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/22/16 11:08	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/22/16 11:08	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/22/16 11:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/22/16 11:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/22/16 11:08	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/22/16 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*12/22/16 11:08*	*1*
Dibromofluoromethane (Surr)	*87*		*80 - 120*		*12/22/16 11:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 132*		*12/22/16 11:08*	*1*
Toluene-d8 (Surr)	*78*		*73 - 124*		*12/22/16 11:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260596/4
Matrix: Water
Analysis Batch: 260596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	16.7		ug/L		83	46 - 120
Benzene	10.0	9.31		ug/L		93	80 - 120
Bromodichloromethane	10.0	9.75		ug/L		97	76 - 125
Bromoform	10.0	9.79		ug/L		98	52 - 157
Bromomethane	10.0	5.76		ug/L		58	24 - 160
2-Butanone (MEK)	20.0	18.3		ug/L		91	54 - 122
Carbon disulfide	10.0	9.75		ug/L		98	58 - 160
Carbon tetrachloride	10.0	10.2		ug/L		102	69 - 149
Chlorobenzene	10.0	9.66		ug/L		97	80 - 120
Chloroethane	10.0	4.95		ug/L		50	24 - 147
Chloroform	10.0	9.50		ug/L		95	80 - 120
Chloromethane	10.0	7.99		ug/L		80	50 - 135
cis-1,2-Dichloroethene	10.0	9.51		ug/L		95	80 - 120
cis-1,3-Dichloropropene	10.0	9.47		ug/L		95	75 - 120
Cyclohexane	10.0	9.16		ug/L		92	66 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.58		ug/L		86	46 - 140
1,2-Dibromoethane	10.0	9.51		ug/L		95	80 - 126
1,2-Dichlorobenzene	10.0	9.40		ug/L		94	80 - 120
1,3-Dichlorobenzene	10.0	9.70		ug/L		97	80 - 120
1,4-Dichlorobenzene	10.0	10.0		ug/L		100	80 - 120
Dichlorodifluoromethane	10.0	6.57		ug/L		66	32 - 140
1,1-Dichloroethane	10.0	9.24		ug/L		92	77 - 121
1,2-Dichloroethane	10.0	9.24		ug/L		92	76 - 130
1,1-Dichloroethene	10.0	10.0		ug/L		100	70 - 141
1,2-Dichloropropane	10.0	9.37		ug/L		94	79 - 121
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120
2-Hexanone	20.0	16.3		ug/L		82	56 - 124
Isopropylbenzene	10.0	11.4		ug/L		114	80 - 120
Methyl acetate	50.0	45.5		ug/L		91	65 - 124
Methylcyclohexane	10.0	9.26		ug/L		93	71 - 122
Methylene Chloride	10.0	10.4		ug/L		104	68 - 136
4-Methyl-2-pentanone (MIBK)	20.0	17.5		ug/L		87	60 - 131
Methyl tert-butyl ether	10.0	9.13		ug/L		91	75 - 126
Styrene	10.0	10.9		ug/L		109	80 - 120
1,1,2,2-Tetrachloroethane	10.0	9.83		ug/L		98	61 - 130
Tetrachloroethene	10.0	10.2		ug/L		102	80 - 123
Toluene	10.0	9.00		ug/L		90	80 - 121
trans-1,2-Dichloroethene	10.0	9.83		ug/L		98	80 - 123
trans-1,3-Dichloropropene	10.0	8.00		ug/L		80	65 - 120
1,2,4-Trichlorobenzene	10.0	8.18		ug/L		82	53 - 137
1,1,1-Trichloroethane	10.0	9.63		ug/L		96	79 - 133
1,1,2-Trichloroethane	10.0	8.80		ug/L		88	80 - 120
Trichloroethene	10.0	10.0		ug/L		100	80 - 122
Trichlorofluoromethane	10.0	6.37		ug/L		64	56 - 161
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.96		ug/L		90	65 - 151
Vinyl chloride	10.0	7.15		ug/L		72	60 - 129
Xylenes, Total	20.0	20.9		ug/L		105	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260596/4
Matrix: Water
Analysis Batch: 260596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*82*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*81*		*63 - 132*
Toluene-d8 (Surr)	*81*		*73 - 124*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-259604/17-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/15/16 10:52	12/20/16 11:36	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/15/16 10:52	12/20/16 11:36	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/20/16 11:36	1
Aniline	5.0	U	5.0	0.22	ug/L		12/15/16 10:52	12/20/16 11:36	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/15/16 10:52	12/20/16 11:36	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/15/16 10:52	12/20/16 11:36	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/15/16 10:52	12/20/16 11:36	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/15/16 10:52	12/20/16 11:36	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/15/16 10:52	12/20/16 11:36	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/15/16 10:52	12/20/16 11:36	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/15/16 10:52	12/20/16 11:36	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/15/16 10:52	12/20/16 11:36	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/15/16 10:52	12/20/16 11:36	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/20/16 11:36	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/15/16 10:52	12/20/16 11:36	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/15/16 10:52	12/20/16 11:36	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/15/16 10:52	12/20/16 11:36	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/15/16 10:52	12/20/16 11:36	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/15/16 10:52	12/20/16 11:36	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/20/16 11:36	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/15/16 10:52	12/20/16 11:36	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/15/16 10:52	12/20/16 11:36	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/20/16 11:36	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/20/16 11:36	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/15/16 10:52	12/20/16 11:36	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/15/16 10:52	12/20/16 11:36	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/15/16 10:52	12/20/16 11:36	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/15/16 10:52	12/20/16 11:36	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/15/16 10:52	12/20/16 11:36	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/20/16 11:36	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/15/16 10:52	12/20/16 11:36	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/15/16 10:52	12/20/16 11:36	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/15/16 10:52	12/20/16 11:36	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/15/16 10:52	12/20/16 11:36	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-259604/17-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/15/16 10:52	12/20/16 11:36	1
Di-n-butyl phthalate	0.415	J	1.0	0.40	ug/L		12/15/16 10:52	12/20/16 11:36	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/15/16 10:52	12/20/16 11:36	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/15/16 10:52	12/20/16 11:36	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/15/16 10:52	12/20/16 11:36	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/20/16 11:36	1
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/15/16 10:52	12/20/16 11:36	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/15/16 10:52	12/20/16 11:36	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/15/16 10:52	12/20/16 11:36	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/15/16 10:52	12/20/16 11:36	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/15/16 10:52	12/20/16 11:36	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/15/16 10:52	12/20/16 11:36	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/15/16 10:52	12/20/16 11:36	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/15/16 10:52	12/20/16 11:36	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/15/16 10:52	12/20/16 11:36	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/15/16 10:52	12/20/16 11:36	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/15/16 10:52	12/20/16 11:36	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/15/16 10:52	12/20/16 11:36	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/15/16 10:52	12/20/16 11:36	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/15/16 10:52	12/20/16 11:36	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/15/16 10:52	12/20/16 11:36	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/15/16 10:52	12/20/16 11:36	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/15/16 10:52	12/20/16 11:36	1
Phenol	1.0	U	1.0	0.15	ug/L		12/15/16 10:52	12/20/16 11:36	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/15/16 10:52	12/20/16 11:36	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/15/16 10:52	12/20/16 11:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*44 - 120*	*12/15/16 10:52*	*12/20/16 11:36*	*1*
2-Fluorophenol (Surr)	*87*		*26 - 120*	*12/15/16 10:52*	*12/20/16 11:36*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*36 - 120*	*12/15/16 10:52*	*12/20/16 11:36*	*1*
Nitrobenzene-d5 (Surr)	*67*		*44 - 120*	*12/15/16 10:52*	*12/20/16 11:36*	*1*
Phenol-d5 (Surr)	*64*		*16 - 120*	*12/15/16 10:52*	*12/20/16 11:36*	*1*
Terphenyl-d14 (Surr)	*78*		*43 - 120*	*12/15/16 10:52*	*12/20/16 11:36*	*1*

Lab Sample ID: LCS 240-259604/18-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	25.5		ug/L		80	58 - 120
Acenaphthylene	32.0	25.2		ug/L		79	59 - 120
Acetophenone	32.0	26.7		ug/L		83	62 - 120
Aniline	32.0	25.7		ug/L		80	10 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-259604/18-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	32.0	26.4		ug/L		83	58 - 120
Atrazine	32.0	27.1		ug/L		85	61 - 120
Benzaldehyde	32.0	19.5		ug/L		61	10 - 120
Benzo[a]anthracene	32.0	26.6		ug/L		83	58 - 120
Benzo[b]fluoranthene	32.0	32.0		ug/L		100	59 - 120
Benzo[k]fluoranthene	32.0	31.0		ug/L		97	61 - 120
Benzo[g,h,i]perylene	32.0	28.2		ug/L		88	41 - 127
Benzo[a]pyrene	32.0	32.3		ug/L		101	63 - 120
Butyl benzyl phthalate	32.0	29.1		ug/L		91	60 - 120
1,1'-Biphenyl	32.0	25.3		ug/L		79	53 - 120
Bis(2-chloroethoxy)methane	32.0	26.9		ug/L		84	63 - 120
Bis(2-chloroethyl)ether	32.0	25.0		ug/L		78	57 - 120
Bis(2-ethylhexyl) phthalate	32.0	28.5		ug/L		89	62 - 120
4-Bromophenyl phenyl ether	32.0	26.3		ug/L		82	55 - 120
Caprolactam	32.0	10.1		ug/L		32	10 - 120
Carbazole	32.0	28.1		ug/L		88	59 - 120
4-Chloroaniline	32.0	28.0		ug/L		88	10 - 120
4-Chloro-3-methylphenol	32.0	28.2		ug/L		88	59 - 120
2-Chloronaphthalene	32.0	25.1		ug/L		79	56 - 120
2-Chlorophenol	32.0	27.3		ug/L		85	62 - 120
4-Chlorophenyl phenyl ether	32.0	26.5		ug/L		83	57 - 120
Chrysene	32.0	26.0		ug/L		81	59 - 120
2-Methylnaphthalene	32.0	25.0		ug/L		78	57 - 120
3 & 4 Methylphenol	32.0	24.1		ug/L		75	53 - 120
Dibenz(a,h)anthracene	32.0	29.2		ug/L		91	39 - 125
Dibenzofuran	32.0	25.9		ug/L		81	58 - 120
3,3'-Dichlorobenzidine	64.0	62.0		ug/L		97	10 - 120
2,4-Dichlorophenol	32.0	26.1		ug/L		82	63 - 120
Diethyl phthalate	32.0	26.9		ug/L		84	64 - 120
2,4-Dimethylphenol	32.0	28.8		ug/L		90	41 - 120
Dimethyl phthalate	32.0	27.4		ug/L		86	63 - 120
4,6-Dinitro-2-methylphenol	64.0	49.7		ug/L		78	40 - 120
2,4-Dinitrophenol	64.0	46.1		ug/L		72	20 - 120
2,4-Dinitrotoluene	32.0	26.2		ug/L		82	62 - 120
Di-n-butyl phthalate	32.0	26.3		ug/L		82	58 - 120
Di-n-octyl phthalate	32.0	30.4		ug/L		95	58 - 128
Fluoranthene	32.0	26.9		ug/L		84	59 - 120
Fluorene	32.0	26.2		ug/L		82	57 - 120
Hexachlorobenzene	32.0	24.5		ug/L		77	48 - 120
Hexachlorobutadiene	32.0	23.9		ug/L		75	47 - 120
Hexachlorocyclopentadiene	32.0	16.0		ug/L		50	24 - 120
Hexachloroethane	32.0	22.7		ug/L		71	48 - 120
Indeno[1,2,3-cd]pyrene	32.0	29.7		ug/L		93	49 - 121
Isophorone	32.0	26.0		ug/L		81	66 - 120
2-Methylphenol	32.0	27.5		ug/L		86	55 - 120
Naphthalene	32.0	24.7		ug/L		77	58 - 120
2-Nitroaniline	32.0	29.6		ug/L		93	62 - 120
3-Nitroaniline	32.0	33.7		ug/L		105	10 - 171

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-259604/18-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	32.0	31.0		ug/L		97	32 - 132
Nitrobenzene	32.0	28.1		ug/L		88	63 - 120
2-Nitrophenol	32.0	28.9		ug/L		90	65 - 120
4-Nitrophenol	64.0	32.7		ug/L		51	18 - 120
N-Nitrosodiphenylamine	32.0	26.1		ug/L		82	54 - 120
N-Nitrosodi-n-propylamine	32.0	26.4		ug/L		82	63 - 120
2,2'-oxybis(1-chloropropane)	32.0	25.6		ug/L		80	61 - 120
Pentachlorophenol	64.0	44.4		ug/L		69	33 - 120
Phenanthrene	32.0	25.4		ug/L		79	57 - 120
Phenol	32.0	17.6		ug/L		55	21 - 120
Pyrene	32.0	26.6		ug/L		83	57 - 120
2,4,5-Trichlorophenol	32.0	25.5		ug/L		80	61 - 120
2,4,6-Trichlorophenol	32.0	28.0		ug/L		87	57 - 120
2,6-Dinitrotoluene	32.0	28.3		ug/L		88	63 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*83*		*44 - 120*
2-Fluorophenol (Surr)	*92*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*79*		*36 - 120*
Nitrobenzene-d5 (Surr)	*89*		*44 - 120*
Phenol-d5 (Surr)	*56*		*16 - 120*
Terphenyl-d14 (Surr)	*91*		*43 - 120*

Lab Sample ID: LCSD 240-259604/19-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	32.0	27.1		ug/L		85	58 - 120	6	35
Acenaphthylene	32.0	27.3		ug/L		85	59 - 120	8	35
Acetophenone	32.0	29.0		ug/L		91	62 - 120	8	35
Aniline	32.0	30.1		ug/L		94	10 - 120	16	35
Anthracene	32.0	28.1		ug/L		88	58 - 120	6	35
Atrazine	32.0	29.7		ug/L		93	61 - 120	9	35
Benzaldehyde	32.0	24.9		ug/L		78	10 - 120	24	35
Benzo[a]anthracene	32.0	28.1		ug/L		88	58 - 120	5	35
Benzo[b]fluoranthene	32.0	33.9		ug/L		106	59 - 120	6	35
Benzo[k]fluoranthene	32.0	34.0		ug/L		106	61 - 120	9	35
Benzo[g,h,i]perylene	32.0	30.0		ug/L		94	41 - 127	6	35
Benzo[a]pyrene	32.0	34.9		ug/L		109	63 - 120	8	35
Butyl benzyl phthalate	32.0	30.7		ug/L		96	60 - 120	5	35
1,1'-Biphenyl	32.0	27.1		ug/L		85	53 - 120	7	35
Bis(2-chloroethoxy)methane	32.0	28.4		ug/L		89	63 - 120	6	35
Bis(2-chloroethyl)ether	32.0	26.8		ug/L		84	57 - 120	7	35
Bis(2-ethylhexyl) phthalate	32.0	31.3		ug/L		98	62 - 120	9	35
4-Bromophenyl phenyl ether	32.0	27.7		ug/L		87	55 - 120	6	35
Caprolactam	32.0	16.6	*	ug/L		52	10 - 120	49	35
Carbazole	32.0	29.9		ug/L		94	59 - 120	6	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 240-259604/19-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chloroaniline	32.0	32.0		ug/L		100	10 - 120	13	35
4-Chloro-3-methylphenol	32.0	30.3		ug/L		95	59 - 120	7	35
2-Chloronaphthalene	32.0	26.8		ug/L		84	56 - 120	6	35
2-Chlorophenol	32.0	30.0		ug/L		94	62 - 120	9	35
4-Chlorophenyl phenyl ether	32.0	28.4		ug/L		89	57 - 120	7	35
Chrysene	32.0	27.4		ug/L		86	59 - 120	5	35
2-Methylnaphthalene	32.0	26.8		ug/L		84	57 - 120	7	35
3 & 4 Methylphenol	32.0	27.4		ug/L		86	53 - 120	13	35
Dibenz(a,h)anthracene	32.0	31.5		ug/L		99	39 - 125	8	35
Dibenzofuran	32.0	27.4		ug/L		86	58 - 120	6	35
3,3'-Dichlorobenzidine	64.0	62.6		ug/L		98	10 - 120	1	35
2,4-Dichlorophenol	32.0	28.0		ug/L		87	63 - 120	7	35
Diethyl phthalate	32.0	28.6		ug/L		89	64 - 120	6	35
2,4-Dimethylphenol	32.0	26.3		ug/L		82	41 - 120	9	35
Dimethyl phthalate	32.0	29.3		ug/L		92	63 - 120	7	35
4,6-Dinitro-2-methylphenol	64.0	52.2		ug/L		82	40 - 120	5	35
2,4-Dinitrophenol	64.0	49.2		ug/L		77	20 - 120	7	35
2,4-Dinitrotoluene	32.0	28.1		ug/L		88	62 - 120	7	35
Di-n-butyl phthalate	32.0	28.3		ug/L		89	58 - 120	7	35
Di-n-octyl phthalate	32.0	33.1		ug/L		103	58 - 128	8	35
Fluoranthene	32.0	28.5		ug/L		89	59 - 120	6	35
Fluorene	32.0	27.8		ug/L		87	57 - 120	6	35
Hexachlorobenzene	32.0	25.9		ug/L		81	48 - 120	6	35
Hexachlorobutadiene	32.0	25.3		ug/L		79	47 - 120	6	35
Hexachlorocyclopentadiene	32.0	16.9		ug/L		53	24 - 120	5	35
Hexachloroethane	32.0	24.8		ug/L		77	48 - 120	9	35
Indeno[1,2,3-cd]pyrene	32.0	32.2		ug/L		101	49 - 121	8	35
Isophorone	32.0	27.6		ug/L		86	66 - 120	6	35
2-Methylphenol	32.0	29.7		ug/L		93	55 - 120	8	35
Naphthalene	32.0	26.5		ug/L		83	58 - 120	7	35
2-Nitroaniline	32.0	31.4		ug/L		98	62 - 120	6	35
3-Nitroaniline	32.0	52.9	E *	ug/L		165	10 - 171	44	35
4-Nitroaniline	32.0	34.3		ug/L		107	32 - 132	10	35
Nitrobenzene	32.0	29.8		ug/L		93	63 - 120	6	35
2-Nitrophenol	32.0	31.1		ug/L		97	65 - 120	7	35
4-Nitrophenol	64.0	43.2		ug/L		67	18 - 120	28	35
N-Nitrosodiphenylamine	32.0	27.6		ug/L		86	54 - 120	6	35
N-Nitrosodi-n-propylamine	32.0	28.8		ug/L		90	63 - 120	9	35
2,2'-oxybis(1-chloropropane)	32.0	27.7		ug/L		87	61 - 120	8	35
Pentachlorophenol	64.0	42.3		ug/L		66	33 - 120	5	35
Phenanthrene	32.0	26.9		ug/L		84	57 - 120	6	35
Phenol	32.0	23.3		ug/L		73	21 - 120	28	35
Pyrene	32.0	28.1		ug/L		88	57 - 120	5	35
2,4,5-Trichlorophenol	32.0	27.3		ug/L		85	61 - 120	7	35
2,4,6-Trichlorophenol	32.0	29.9		ug/L		93	57 - 120	7	35
2,6-Dinitrotoluene	32.0	30.3		ug/L		95	63 - 120	7	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 240-259604/19-A
Matrix: Water
Analysis Batch: 260187

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259604

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*88*		*44 - 120*
2-Fluorophenol (Surr)	*112*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*86*		*36 - 120*
Nitrobenzene-d5 (Surr)	*92*		*44 - 120*
Phenol-d5 (Surr)	*75*		*16 - 120*
Terphenyl-d14 (Surr)	*97*		*43 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-259017/1-A
Matrix: Water
Analysis Batch: 259348

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/12/16 14:00	12/14/16 03:00	1
Antimony	10	U	10	3.1	ug/L		12/12/16 14:00	12/14/16 03:00	1
Barium	200	U	200	2.4	ug/L		12/12/16 14:00	12/14/16 03:00	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/12/16 14:00	12/14/16 03:00	1
Calcium	5000	U	5000	710	ug/L		12/12/16 14:00	12/14/16 03:00	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/12/16 14:00	12/14/16 03:00	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/12/16 14:00	12/14/16 03:00	1
Chromium	5.0	U	5.0	0.55	ug/L		12/12/16 14:00	12/14/16 03:00	1
Copper	25	U	25	3.9	ug/L		12/12/16 14:00	12/14/16 03:00	1
Iron	100	U	100	25	ug/L		12/12/16 14:00	12/14/16 03:00	1
Potassium	142	J	5000	70	ug/L		12/12/16 14:00	12/14/16 03:00	1
Magnesium	5000	U	5000	230	ug/L		12/12/16 14:00	12/14/16 03:00	1
Manganese	15	U	15	5.1	ug/L		12/12/16 14:00	12/14/16 03:00	1
Silver	5.0	U	5.0	0.92	ug/L		12/12/16 14:00	12/14/16 03:00	1
Sodium	421	J	5000	330	ug/L		12/12/16 14:00	12/14/16 03:00	1
Nickel	40	U	40	1.6	ug/L		12/12/16 14:00	12/14/16 03:00	1
Vanadium	10	U	10	4.4	ug/L		12/12/16 14:00	12/14/16 03:00	1
Zinc	50	U	50	16	ug/L		12/12/16 14:00	12/14/16 03:00	1
Arsenic	10	U	10	3.3	ug/L		12/12/16 14:00	12/14/16 03:00	1
Lead	5.0	U	5.0	1.9	ug/L		12/12/16 14:00	12/14/16 03:00	1
Selenium	15	U	15	5.1	ug/L		12/12/16 14:00	12/14/16 03:00	1
Thallium	10	U	10	2.1	ug/L		12/12/16 14:00	12/14/16 03:00	1
Tin	100	U	100	1.8	ug/L		12/12/16 14:00	12/14/16 03:00	1

Lab Sample ID: LCS 240-259017/2-A
Matrix: Water
Analysis Batch: 259348

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	2080		ug/L		104	80 - 120
Antimony	500	532		ug/L		106	80 - 120
Barium	2000	1970		ug/L		99	80 - 120
Beryllium	50.0	47.3		ug/L		95	80 - 120
Calcium	50000	51500		ug/L		103	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-259017/2-A
Matrix: Water
Analysis Batch: 259348

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	53.8		ug/L		108	80 - 120
Cobalt	500	511		ug/L		102	80 - 120
Chromium	200	199		ug/L		99	80 - 120
Copper	250	254		ug/L		102	80 - 120
Iron	1000	1040		ug/L		104	80 - 120
Potassium	50000	50000		ug/L		100	80 - 120
Magnesium	50000	51700		ug/L		103	80 - 120
Manganese	500	517		ug/L		103	80 - 120
Silver	50.0	50.3		ug/L		101	80 - 120
Sodium	50000	50200		ug/L		100	80 - 120
Nickel	500	520		ug/L		104	80 - 120
Vanadium	500	504		ug/L		101	80 - 120
Zinc	500	527		ug/L		105	80 - 120
Arsenic	2000	2160		ug/L		108	80 - 120
Lead	500	509		ug/L		102	80 - 120
Selenium	2000	2160		ug/L		108	80 - 120
Thallium	2000	2050		ug/L		103	80 - 120
Tin	2000	2080		ug/L		104	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-259018/1-A
Matrix: Water
Analysis Batch: 259334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259018

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/12/16 14:00	12/13/16 13:49	1

Lab Sample ID: LCS 240-259018/2-A
Matrix: Water
Analysis Batch: 259334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259018

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.83		ug/L		97	80 - 120

GC/MS VOA

Analysis Batch: 260221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73181-1	20161208UAW16-10V13N	Total/NA	Water	8260B	
240-73181-2	20161208UAW16-10V13FD	Total/NA	Water	8260B	
240-73181-3	20161209UAW13-20V14N	Total/NA	Water	8260B	
240-73181-4	20161209UAW08-20V15N	Total/NA	Water	8260B	
240-73181-5	20161209UAW07-20V15N	Total/NA	Water	8260B	
240-73181-6	20161209UAW12-20V14N	Total/NA	Water	8260B	
MB 240-260221/7	Method Blank	Total/NA	Water	8260B	
LCS 240-260221/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 260435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73181-5	20161209UAW07-20V15N	Total/NA	Water	8260B	
240-73181-7	20161209UAW05-20V14N	Total/NA	Water	8260B	
MB 240-260435/7	Method Blank	Total/NA	Water	8260B	
LCS 240-260435/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 260596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73181-7	20161209UAW05-20V14N	Total/NA	Water	8260B	
240-73181-8	20161209UAW06-20V16N	Total/NA	Water	8260B	
240-73181-8	20161209UAW06-20V16N	Total/NA	Water	8260B	
240-73181-9	TRIP BLANK	Total/NA	Water	8260B	
MB 240-260596/7	Method Blank	Total/NA	Water	8260B	
LCS 240-260596/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 259604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73181-1	20161208UAW16-10V13N	Total/NA	Water	3510C	
240-73181-2	20161208UAW16-10V13FD	Total/NA	Water	3510C	
240-73181-3	20161209UAW13-20V14N	Total/NA	Water	3510C	
240-73181-4	20161209UAW08-20V15N	Total/NA	Water	3510C	
240-73181-5	20161209UAW07-20V15N	Total/NA	Water	3510C	
240-73181-6	20161209UAW12-20V14N	Total/NA	Water	3510C	
240-73181-7	20161209UAW05-20V14N	Total/NA	Water	3510C	
240-73181-8	20161209UAW06-20V16N	Total/NA	Water	3510C	
MB 240-259604/17-A	Method Blank	Total/NA	Water	3510C	
LCS 240-259604/18-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-259604/19-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 260187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-259604/17-A	Method Blank	Total/NA	Water	8270C	259604
LCS 240-259604/18-A	Lab Control Sample	Total/NA	Water	8270C	259604
LCSD 240-259604/19-A	Lab Control Sample Dup	Total/NA	Water	8270C	259604

Analysis Batch: 260366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73181-1	20161208UAW16-10V13N	Total/NA	Water	8270C	259604

GC/MS Semi VOA (Continued)

Analysis Batch: 260366 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73181-2	20161208UAW16-10V13FD	Total/NA	Water	8270C	259604
240-73181-6	20161209UAW12-20V14N	Total/NA	Water	8270C	259604
240-73181-7	20161209UAW05-20V14N	Total/NA	Water	8270C	259604
240-73181-8	20161209UAW06-20V16N	Total/NA	Water	8270C	259604

Analysis Batch: 260556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73181-3	20161209UAW13-20V14N	Total/NA	Water	8270C	259604
240-73181-4	20161209UAW08-20V15N	Total/NA	Water	8270C	259604
240-73181-5	20161209UAW07-20V15N	Total/NA	Water	8270C	259604

Metals

Prep Batch: 259017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73181-1	20161208UAW16-10V13N	Total Recoverable	Water	3005A	
240-73181-2	20161208UAW16-10V13FD	Total Recoverable	Water	3005A	
240-73181-3	20161209UAW13-20V14N	Total Recoverable	Water	3005A	
240-73181-4	20161209UAW08-20V15N	Total Recoverable	Water	3005A	
240-73181-5	20161209UAW07-20V15N	Total Recoverable	Water	3005A	
240-73181-6	20161209UAW12-20V14N	Total Recoverable	Water	3005A	
240-73181-7	20161209UAW05-20V14N	Total Recoverable	Water	3005A	
240-73181-8	20161209UAW06-20V16N	Total Recoverable	Water	3005A	
MB 240-259017/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-259017/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 259018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73181-1	20161208UAW16-10V13N	Total/NA	Water	7470A	
240-73181-2	20161208UAW16-10V13FD	Total/NA	Water	7470A	
240-73181-3	20161209UAW13-20V14N	Total/NA	Water	7470A	
240-73181-4	20161209UAW08-20V15N	Total/NA	Water	7470A	
240-73181-5	20161209UAW07-20V15N	Total/NA	Water	7470A	
240-73181-6	20161209UAW12-20V14N	Total/NA	Water	7470A	
240-73181-7	20161209UAW05-20V14N	Total/NA	Water	7470A	
240-73181-8	20161209UAW06-20V16N	Total/NA	Water	7470A	
MB 240-259018/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-259018/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 259334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73181-1	20161208UAW16-10V13N	Total/NA	Water	7470A	259018
240-73181-2	20161208UAW16-10V13FD	Total/NA	Water	7470A	259018
240-73181-3	20161209UAW13-20V14N	Total/NA	Water	7470A	259018
240-73181-4	20161209UAW08-20V15N	Total/NA	Water	7470A	259018
240-73181-5	20161209UAW07-20V15N	Total/NA	Water	7470A	259018
240-73181-6	20161209UAW12-20V14N	Total/NA	Water	7470A	259018
240-73181-7	20161209UAW05-20V14N	Total/NA	Water	7470A	259018
240-73181-8	20161209UAW06-20V16N	Total/NA	Water	7470A	259018
MB 240-259018/1-A	Method Blank	Total/NA	Water	7470A	259018

Metals (Continued)

Analysis Batch: 259334 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-259018/2-A	Lab Control Sample	Total/NA	Water	7470A	259018

Analysis Batch: 259348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73181-1	20161208UAW16-10V13N	Total Recoverable	Water	6010B	259017
240-73181-3	20161209UAW13-20V14N	Total Recoverable	Water	6010B	259017
240-73181-4	20161209UAW08-20V15N	Total Recoverable	Water	6010B	259017
240-73181-5	20161209UAW07-20V15N	Total Recoverable	Water	6010B	259017
240-73181-6	20161209UAW12-20V14N	Total Recoverable	Water	6010B	259017
240-73181-7	20161209UAW05-20V14N	Total Recoverable	Water	6010B	259017
240-73181-8	20161209UAW06-20V16N	Total Recoverable	Water	6010B	259017
MB 240-259017/1-A	Method Blank	Total Recoverable	Water	6010B	259017
LCS 240-259017/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259017

Analysis Batch: 259449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73181-1	20161208UAW16-10V13N	Total Recoverable	Water	6010B	259017
240-73181-2	20161208UAW16-10V13FD	Total Recoverable	Water	6010B	259017
240-73181-3	20161209UAW13-20V14N	Total Recoverable	Water	6010B	259017
240-73181-4	20161209UAW08-20V15N	Total Recoverable	Water	6010B	259017
240-73181-4	20161209UAW08-20V15N	Total Recoverable	Water	6010B	259017
240-73181-5	20161209UAW07-20V15N	Total Recoverable	Water	6010B	259017
240-73181-6	20161209UAW12-20V14N	Total Recoverable	Water	6010B	259017
240-73181-7	20161209UAW05-20V14N	Total Recoverable	Water	6010B	259017
240-73181-7	20161209UAW05-20V14N	Total Recoverable	Water	6010B	259017
240-73181-8	20161209UAW06-20V16N	Total Recoverable	Water	6010B	259017

Lab Chronicle

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: 20161208UAW16-10V13N — Lab Sample ID: 240-73181-1

Date Collected: 12/08/16 15:55 — **Matrix: Water**
Date Received: 12/10/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260221	12/20/16 18:08	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		1	260366	12/21/16 13:30	TMH	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/14/16 03:47	KLC	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259449	12/14/16 15:54	KLC	TAL CAN
Total/NA	Prep	7470A			259018	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 14:03	WKD	TAL CAN

Client Sample ID: 20161208UAW16-10V13FD — Lab Sample ID: 240-73181-2

Date Collected: 12/08/16 16:00 — **Matrix: Water**
Date Received: 12/10/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260221	12/20/16 18:30	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		1	260366	12/21/16 13:54	TMH	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259449	12/14/16 15:59	KLC	TAL CAN
Total/NA	Prep	7470A			259018	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 14:05	WKD	TAL CAN

Client Sample ID: 20161209UAW13-20V14N — Lab Sample ID: 240-73181-3

Date Collected: 12/09/16 09:55 — **Matrix: Water**
Date Received: 12/10/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	260221	12/20/16 18:52	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		4	260556	12/22/16 10:05	TMH	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/14/16 03:56	KLC	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259449	12/14/16 16:12	KLC	TAL CAN
Total/NA	Prep	7470A			259018	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 14:11	WKD	TAL CAN

Client Sample ID: 20161209UAW08-20V15N — Lab Sample ID: 240-73181-4

Date Collected: 12/09/16 11:50
Date Received: 12/10/16 08:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		16.67	260221	12/20/16 19:15	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		10	260556	12/22/16 10:29	TMH	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/14/16 04:01	KLC	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259449	12/14/16 16:16	KLC	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		5	259449	12/14/16 16:21	KLC	TAL CAN
Total/NA	Prep	7470A			259018	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 14:13	WKD	TAL CAN

Client Sample ID: 20161209UAW07-20V15N — Lab Sample ID: 240-73181-5

Date Collected: 12/09/16 14:30
Date Received: 12/10/16 08:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	260221	12/20/16 19:37	LEE	TAL CAN
Total/NA	Analysis	8260B		50	260435	12/21/16 14:20	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		4	260556	12/22/16 09:41	TMH	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/14/16 04:05	KLC	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259449	12/14/16 16:25	KLC	TAL CAN
Total/NA	Prep	7470A			259018	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 14:15	WKD	TAL CAN

Client Sample ID: 20161209UAW12-20V14N — Lab Sample ID: 240-73181-6

Date Collected: 12/09/16 10:10
Date Received: 12/10/16 08:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		14.29	260221	12/20/16 19:59	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		1	260366	12/21/16 15:32	TMH	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/14/16 04:10	KLC	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259449	12/14/16 16:29	KLC	TAL CAN
Total/NA	Prep	7470A			259018	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 14:17	WKD	TAL CAN

Lab Chronicle

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Client Sample ID: 20161209UAW05-20V14N

Lab Sample ID: 240-73181-7
Date Collected: 12/09/16 12:30
Matrix: Water
Date Received: 12/10/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	260596	12/22/16 13:05	LEE	TAL CAN
Total/NA	Analysis	8260B		20	260435	12/21/16 14:43	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		1	260366	12/21/16 15:56	TMH	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/14/16 04:14	KLC	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259449	12/14/16 16:34	KLC	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		5	259449	12/14/16 16:38	KLC	TAL CAN
Total/NA	Prep	7470A			259018	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 14:19	WKD	TAL CAN

Client Sample ID: 20161209UAW06-20V16N

Lab Sample ID: 240-73181-8
Date Collected: 12/09/16 14:30
Matrix: Water
Date Received: 12/10/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		3.33	260596	12/22/16 12:20	LEE	TAL CAN
Total/NA	Analysis	8260B		1	260596	12/22/16 13:28	LEE	TAL CAN
Total/NA	Prep	3510C			259604	12/15/16 10:52	KEH	TAL CAN
Total/NA	Analysis	8270C		1	260366	12/21/16 16:21	TMH	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259348	12/14/16 04:19	KLC	TAL CAN
Total Recoverable	Prep	3005A			259017	12/12/16 14:00	WKD	TAL CAN
Total Recoverable	Analysis	6010B		1	259449	12/14/16 16:42	KLC	TAL CAN
Total/NA	Prep	7470A			259018	12/12/16 14:00	WKD	TAL CAN
Total/NA	Analysis	7470A		1	259334	12/13/16 14:21	WKD	TAL CAN

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-73181-9
Date Collected: 12/09/16 00:00
Matrix: Water
Date Received: 12/10/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260596	12/22/16 12:42	LEE	TAL CAN

Laboratory References:
TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73181-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17
Illinois	NELAP	5	200004	07-31-17
Kansas	NELAP	7	E-10336	01-31-17 *
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16 *
Minnesota	NELAP	5	039-999-348	12-31-16 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17
Nevada	State Program	9	OH-000482008A	07-31-17
New Jersey	NELAP	2	OH001	06-30-17
New York	NELAP	2	10975	03-31-17
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17
Pennsylvania	NELAP	3	68-00340	08-31-17
Texas	NELAP	6	T104704517-15-5	08-31-17
USDA	Federal		P330-13-00319	11-26-16 *
Virginia	NELAP	3	460175	09-14-17
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16 *
Wisconsin	State Program	5	999518190	08-31-17

* Certification renewal pending - certification considered valid.

3.0/C3.0 1.4/C1.4

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

CINCINNATI

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

21050

Client Information	Sampler: JimSHAW	Lab PM: O'Meara, Patrick J	Carrier Tracking No(s):	COC No: 240-39036-17141.8
Client Contact: Jim Shaw	Phone: 513-368-4541	E-Mail: patrick.omeara@testamericainc.com		Page: Page 8 of 10
Company: Parsons Corporation				Job #:
Address: 2443 Crowne Point Drive	Due Date Requested:			
City: Cincinnati	TAT Requested (days): STANDARD			
State, Zip: OH, 45241				
Phone: 513-317-2984(Tel)	PO #: 4500814287			
Email: Jim.Shaw@parsons.com	WO #:			
Project Name: R & H Cincinnati - GW Sampling	Project #: 24009047			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	6010B, 7470A	8270C - BNAs TCL / APP-IX /Aniline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N		
20161208UAW16-10V13N	12.08.16	1555	G	Water	N	N	X	X	X		
20161208UAW16-10V13FD	12.08.16	1600	G	Water	N	N	X	X	X		
20161209UAW13-20V14N	12.09.16	0955	G	Water	N	N	X	X	X		
20161209UAW08-20V15N	12.09.16	1150	G	Water	N	N	X	X	X		
20161209UAW07-20V15N	12.09.16	1430	G	Water	N	N	X	X	X		
20161209UAW12-20V14N	12-9-16	1010	G	Water	N	N	X	X	X		
20161209UAW05-20V14N	12-9-16	1230	G	Water	N	N	X	X	X		
20161209UAW06-20V16N	12-9-16	1430	G	Water	N	N	X	X	X		
TRIP BLANK	LAB	LAB	G	Water	N	N	X				
				Water							
				Water							

240-73181 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12-9-16 1540	PARSONS		12/9/16 1540	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/9/16 1540		QOP	12-10-16 8:00	TAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

12/23/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 73181**

Canton Facility

Client PARSONS CORP. Site Name – Cooler unpacked by: POP

Cooler Received on 12-10-16 Opened on 12-10-16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other CLIPPER

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other

COOLANT: ~~Wet Ice~~ Blue Ice Dry Ice Water None

☒ See Multiple Cooler Form

1. Cooler temperature upon receipt
   IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
   IR GUN #36 (CF +1.1°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC682547**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes No
15. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica Multiple Cooler Receipt Form/Narrative **Login # :** 73181
Canton Facility

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
~~CLIENT~~ CLIENT	#8	3.0	3.0	Ice
1	1	1.4	1.4	1

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
20161208UAW16-10V13N	240-73181-F-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161208UAW16-10V13FD	240-73181-F-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161209UAW13-20V14N	240-73181-F-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161209UAW08-20V15N	240-73181-F-4	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161209UAW07-20V15N	240-73181-F-5	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161209UAW12-20V14N	240-73181-F-6	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161209UAW05-20V14N	240-73181-F-7	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161209UAW06-20V16N	240-73181-F-8	Plastic 500ml - with Nitric Acid	<2	_____	_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-73378-1
Client Project/Site: R & H Cincinnati - GW Sampling

For:
Parsons Corporation
2443 Crowne Point Drive
Cincinnati, Ohio 45241

Attn: Karen Fields

Patrick O'Meara

Authorized for release by:
12/29/2016 11:26:47 AM

Patrick O'Meara, Manager of Project Management
(330)966-5725
patrick.omeara@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

RELEASED
DATE 6-28-17
RIN # 2017-007322
INITIALS

Job ID: 240-73378-1

Laboratory: TestAmerica Canton

Narrative

4

CASE NARRATIVE

Client: Parsons Corporation

Project: R & H Cincinnati - GW Sampling

Report Number: 240-73378-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/15/2016 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.6° C and 1.0° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 20161213UAW21-30V27N (240-73378-1), 20161213MW-EPA-1V14N (240-73378-2), 20161213CINRB-1 (240-73378-3), 20161214UAW17-40V36N (240-73378-4), 20161214UAW20-60V56N (240-73378-5), 20161214UAW20-60V56FD (240-73378-6), 20161213UAW23-20V23N (240-73378-7), 20161213UAW21-80V72N (240-73378-8), 20161214UAW14-10V12N (240-73378-9), 20161214MW-EPA-2V16N (240-73378-10) and TRIP BLANK (240-73378-11) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/21/2016 and 12/22/2016.

Methylene Chloride was detected in method blank MB 240-260434/7 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Methylene Chloride was detected in method blank MB 240-260596/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Acetone failed the recovery criteria low for the MS of sample 20161213MW-EPA-1V14N (240-73378-2) in batch 240-260434.

Samples 20161213MW-EPA-1V14N (240-73378-2)[200X], 20161213MW-EPA-1V14N (240-73378-2)[2000X], 20161214UAW20-60V56N

Job ID: 240-73378-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

(240-73378-5)[2.5X], 20161214UAW20-60V56FD (240-73378-6)[2.5X] and 20161214MW-EPA-2V16N (240-73378-10)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 20161213UAW21-30V27N (240-73378-1), 20161213MW-EPA-1V14N (240-73378-2), 20161213CINRB-1 (240-73378-3), 20161214UAW17-40V36N (240-73378-4), 20161214UAW20-60V56N (240-73378-5), 20161214UAW20-60V56FD (240-73378-6), 20161213UAW23-20V23N (240-73378-7), 20161213UAW21-80V72N (240-73378-8), 20161214UAW14-10V12N (240-73378-9) and 20161214MW-EPA-2V16N (240-73378-10) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/20/2016 and 12/23/2016 and analyzed on 12/22/2016, 12/23/2016, 12/27/2016 and 12/28/2016.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates, per fraction, to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: 20161214UAW17-40V36N (240-73378-4), 20161213UAW23-20V23N (240-73378-7), 20161213UAW21-80V72N (240-73378-8), and 20161214MW-EPA-2V16N (240-73378-10). These results have been reported and qualified.

Sample 20161213MW-EPA-1V14N (240-73378-2)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Diethyl phthalate and Di-n-butyl phthalate were detected in method blank MB 240-260765/17-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Diethyl phthalate and Dimethyl phthalate failed the recovery criteria low for LCS 240-260234/17-A. Butyl benzyl phthalate, Diethyl phthalate and Dimethyl phthalate failed the recovery criteria low for LCSD 240-260234/18-A. The associated samples were re-prepared and/or re-analyzed outside holding time. Both sets of data have been reported.

The laboratory control sample duplicate (LCSD) for prep batch 260765 recovered outside control limits for the following analyte: 3-Nitroaniline. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-260234 and 240-260765.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICP)

Samples 20161213UAW21-30V27N (240-73378-1), 20161213MW-EPA-1V14N (240-73378-2), 20161213CINRB-1 (240-73378-3), 20161214UAW17-40V36N (240-73378-4), 20161214UAW20-60V56N (240-73378-5), 20161214UAW20-60V56FD (240-73378-6), 20161213UAW23-20V23N (240-73378-7), 20161213UAW21-80V72N (240-73378-8), 20161214UAW14-10V12N (240-73378-9) and 20161214MW-EPA-2V16N (240-73378-10) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/16/2016 and analyzed on 12/20/2016, 12/21/2016 and 12/27/2016.

Sodium was detected in method blank MB 240-259840/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Samples 20161213MW-EPA-1V14N (240-73378-2)[5X] and 20161214MW-EPA-2V16N (240-73378-10)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Job ID: 240-73378-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples 20161213UAW21-30V27N (240-73378-1), 20161213MW-EPA-1V14N (240-73378-2), 20161213CINRB-1 (240-73378-3), 20161214UAW17-40V36N (240-73378-4), 20161214UAW20-60V56N (240-73378-5), 20161214UAW20-60V56FD (240-73378-6), 20161213UAW23-20V23N (240-73378-7), 20161213UAW21-80V72N (240-73378-8), 20161214UAW14-10V12N (240-73378-9) and 20161214MW-EPA-2V16N (240-73378-10) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/16/2016 and analyzed on 12/17/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-73378-1	20161213UAW21-30V27N	Water	12/13/16 12:10	12/15/16 08:00
240-73378-2	20161213MW-EPA-1V14N	Water	12/13/16 15:45	12/15/16 08:00
240-73378-3	20161213CINRB-1	Water	12/13/16 08:00	12/15/16 08:00
240-73378-4	20161214UAW17-40V36N	Water	12/14/16 11:45	12/15/16 08:00
240-73378-5	20161214UAW20-60V56N	Water	12/14/16 14:15	12/15/16 08:00
240-73378-6	20161214UAW20-60V56FD	Water	12/14/16 14:15	12/15/16 08:00
240-73378-7	20161213UAW23-20V23N	Water	12/13/16 17:10	12/15/16 08:00
240-73378-8	20161213UAW21-80V72N	Water	12/13/16 12:10	12/15/16 08:00
240-73378-9	20161214UAW14-10V12N	Water	12/14/16 11:35	12/15/16 08:00
240-73378-10	20161214MW-EPA-2V16N	Water	12/14/16 14:15	12/15/16 08:00
240-73378-11	TRIP BLANK	Water	12/13/16 00:00	12/15/16 08:00

Detection Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Client Sample ID: 20161213UAW21-30V27N — Lab Sample ID: 240-73378-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.67	J	1.0	0.31	ug/L	1		8260B	Total/NA
Tetrachloroethene	7.3		1.0	0.30	ug/L	1		8260B	Total/NA
Di-n-butyl phthalate - RE	0.69	J H B	1.1	0.43	ug/L	1		8270C	Total/NA
Barium	71	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	100000		5000	710	ug/L	1		6010B	Total Recoverable
Cobalt	6.2	J	7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	300		5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	8.3	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	3200		100	25	ug/L	1		6010B	Total Recoverable
Potassium	2700	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	27000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	63		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	39000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	220		40	1.6	ug/L	1		6010B	Total Recoverable
Thallium	2.1	J	10	2.1	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161213MW-EPA-1V14N — Lab Sample ID: 240-73378-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	38000		20000	3500	ug/L	2000		8260B	Total/NA
Chlorobenzene	5200		200	64	ug/L	200		8260B	Total/NA
1,2-Dichlorobenzene	300		200	52	ug/L	200		8260B	Total/NA
1,4-Dichlorobenzene	330		200	46	ug/L	200		8260B	Total/NA
Methylene Chloride	190	J B	200	110	ug/L	200		8260B	Total/NA
Acenaphthylene	24		1.1	0.11	ug/L	5		8270C	Total/NA
Aniline	130		27	1.2	ug/L	5		8270C	Total/NA
Anthracene	3.2		1.1	0.17	ug/L	5		8270C	Total/NA
2-Chlorophenol	9.8		5.4	0.72	ug/L	5		8270C	Total/NA
2-Methylnaphthalene	1.6		1.1	0.20	ug/L	5		8270C	Total/NA
3 & 4 Methylphenol	8.3	J	11	1.8	ug/L	5		8270C	Total/NA
Fluoranthene	3.7		1.1	0.15	ug/L	5		8270C	Total/NA
Naphthalene	11		1.1	0.23	ug/L	5		8270C	Total/NA
Phenanthrene	9.1		1.1	0.17	ug/L	5		8270C	Total/NA
Phenol	3.8	J	5.4	0.82	ug/L	5		8270C	Total/NA
Pyrene	9.3		1.1	0.15	ug/L	5		8270C	Total/NA
Aniline - RE	150	H	30	1.3	ug/L	5		8270C	Total/NA
2-Chlorophenol - RE	17	H	6.0	0.79	ug/L	5		8270C	Total/NA
3 & 4 Methylphenol - RE	9.6	J H	12	2.0	ug/L	5		8270C	Total/NA
Phenol - RE	7.7	H	6.0	0.89	ug/L	5		8270C	Total/NA
Aluminum	41	J	200	40	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161213MW-EPA-1V14N (Continued) — Lab Sample ID: 240-73378-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	18		10	3.1	ug/L	1		6010B	Total Recoverable
Barium	5300		200	2.4	ug/L	1		6010B	Total Recoverable
Beryllium	0.39	J	5.0	0.21	ug/L	1		6010B	Total Recoverable
Calcium	390000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	39		5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	25000		100	25	ug/L	1		6010B	Total Recoverable
Potassium	27000		5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	330000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	200		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	1200000	B	25000	1700	ug/L	5		6010B	Total Recoverable
Nickel	58		40	1.6	ug/L	1		6010B	Total Recoverable
Vanadium	250		10	4.4	ug/L	1		6010B	Total Recoverable
Zinc	24	J	50	16	ug/L	1		6010B	Total Recoverable
Arsenic	340		10	3.3	ug/L	1		6010B	Total Recoverable
Tin	4200		100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161213CINRB-1 — Lab Sample ID: 240-73378-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate - RE	0.55	J H B	0.96	0.38	ug/L	1		8270C	Total/NA
Aluminum	96	J	200	40	ug/L	1		6010B	Total Recoverable
Barium	7.2	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	820	J	5000	710	ug/L	1		6010B	Total Recoverable
Chromium	1.3	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	8.4	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	50	J	100	25	ug/L	1		6010B	Total Recoverable
Sodium	1900	J B	5000	330	ug/L	1		6010B	Total Recoverable
Tin	10	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161214UAW17-40V36N — Lab Sample ID: 240-73378-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate - RE	0.27	J H B	1.0	0.13	ug/L	1		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161214UAW17-40V36N (Continued) — Lab Sample ID: 240-73378-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate - RE	0.64	J H B	1.0	0.40	ug/L	1		8270C	Total/NA
Aluminum	52	J	200	40	ug/L	1		6010B	Total Recoverable
Barium	230		200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	93000		5000	710	ug/L	1		6010B	Total Recoverable
Iron	6700		100	25	ug/L	1		6010B	Total Recoverable
Potassium	640	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	28000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	150		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	7900	B	5000	330	ug/L	1		6010B	Total Recoverable
Arsenic	32		10	3.3	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161214UAW20-60V56N — Lab Sample ID: 240-73378-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.70	J	1.0	0.32	ug/L	1		8260B	Total/NA
Chloroform	0.79	J	1.0	0.31	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	13		1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	4.4		1.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	5.0		1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	1.7		1.0	0.27	ug/L	1		8260B	Total/NA
Tetrachloroethene	77		2.5	0.75	ug/L	2.5		8260B	Total/NA
trans-1,2-Dichloroethene	0.82	J	1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	7.2		1.0	0.23	ug/L	1		8260B	Total/NA
1,1,2-Trichloroethane	1.7		1.0	0.34	ug/L	1		8260B	Total/NA
Trichloroethene	5.2		1.0	0.33	ug/L	1		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8		1.0	0.41	ug/L	1		8260B	Total/NA
Di-n-butyl phthalate - RE	0.56	J H B	1.1	0.43	ug/L	1		8270C	Total/NA
Barium	17	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	220000		5000	710	ug/L	1		6010B	Total Recoverable
Cadmium	0.49	J	2.0	0.29	ug/L	1		6010B	Total Recoverable
Iron	33	J	100	25	ug/L	1		6010B	Total Recoverable
Potassium	2000	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	74000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	61		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	63000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	1.8	J	40	1.6	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161214UAW20-60V56N (Continued) — Lab Sample ID: 240-73378-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	2.6	J	10	2.1	ug/L	1		6010B	Total Recoverable
Tin	2.2	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161214UAW20-60V56FD — Lab Sample ID: 240-73378-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.57	J	1.0	0.32	ug/L	1		8260B	Total/NA
Chloroform	0.80	J	1.0	0.31	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	14		1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	4.7		1.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	5.2		1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	2.1		1.0	0.27	ug/L	1		8260B	Total/NA
Tetrachloroethene	81		2.5	0.75	ug/L	2.5		8260B	Total/NA
trans-1,2-Dichloroethene	0.92	J	1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	7.7		1.0	0.23	ug/L	1		8260B	Total/NA
1,1,2-Trichloroethane	1.8		1.0	0.34	ug/L	1		8260B	Total/NA
Trichloroethene	5.8		1.0	0.33	ug/L	1		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6		1.0	0.41	ug/L	1		8260B	Total/NA
Di-n-butyl phthalate - RE	0.40	J H B	1.0	0.40	ug/L	1		8270C	Total/NA
Naphthalene - RE	0.28	H	0.20	0.043	ug/L	1		8270C	Total/NA
Barium	17	J	200	2.4	ug/L	1		6010B	Total Recoverable
Beryllium	0.25	J	5.0	0.21	ug/L	1		6010B	Total Recoverable
Calcium	220000		5000	710	ug/L	1		6010B	Total Recoverable
Cadmium	0.57	J	2.0	0.29	ug/L	1		6010B	Total Recoverable
Chromium	0.74	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	32	J	100	25	ug/L	1		6010B	Total Recoverable
Potassium	2000	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	73000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	61		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	62000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	1.8	J	40	1.6	ug/L	1		6010B	Total Recoverable
Tin	1.8	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161213UAW23-20V23N — Lab Sample ID: 240-73378-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	4.8		1.0	0.31	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.7		1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	5.1		1.0	0.25	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.49	J	1.0	0.27	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Client Sample ID: 20161213UAW23-20V23N (Continued) — Lab Sample ID: 240-73378-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	10		1.0	0.30	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.57	J	1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	7.3		1.0	0.23	ug/L	1		8260B	Total/NA
1,1,2-Trichloroethane	0.61	J	1.0	0.34	ug/L	1		8260B	Total/NA
Trichloroethene	1.7		1.0	0.33	ug/L	1		8260B	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.65	J	1.0	0.41	ug/L	1		8260B	Total/NA
Di-n-butyl phthalate - RE	0.89	J H B	1.0	0.40	ug/L	1		8270C	Total/NA
Barium	47	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	270000		5000	710	ug/L	1		6010B	Total Recoverable
Cadmium	0.32	J	2.0	0.29	ug/L	1		6010B	Total Recoverable
Chromium	54		5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	7200		100	25	ug/L	1		6010B	Total Recoverable
Potassium	23000		5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	65000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	79		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	97000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	45		40	1.6	ug/L	1		6010B	Total Recoverable
Selenium	30		15	5.1	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161213UAW21-80V72N — Lab Sample ID: 240-73378-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	160	J	200	40	ug/L	1		6010B	Total Recoverable
Barium	200		200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	120000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	0.68	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	3700		100	25	ug/L	1		6010B	Total Recoverable
Potassium	1200	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	40000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	660		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	44000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	4.7	J	40	1.6	ug/L	1		6010B	Total Recoverable
Arsenic	85		10	3.3	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Client Sample ID: 20161214UAW14-10V12N — Lab Sample ID: 240-73378-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	80	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	97000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	6.7		5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	4000		100	25	ug/L	1		6010B	Total Recoverable
Potassium	850	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	28000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	35		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	26000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	3.5	J	40	1.6	ug/L	1		6010B	Total Recoverable
Arsenic	6.8	J	10	3.3	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161214MW-EPA-2V16N — Lab Sample ID: 240-73378-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.77	J	1.0	0.31	ug/L	1		8260B	Total/NA
Tetrachloroethene	56		2.0	0.60	ug/L	2		8260B	Total/NA
Trichloroethene	0.41	J	1.0	0.33	ug/L	1		8260B	Total/NA
Di-n-butyl phthalate - RE	0.45	J H B	0.93	0.37	ug/L	1		8270C	Total/NA
Di-n-octyl phthalate - RE	0.60	J H	0.93	0.34	ug/L	1		8270C	Total/NA
Aluminum	650		200	40	ug/L	1		6010B	Total Recoverable
Barium	150	J	200	2.4	ug/L	1		6010B	Total Recoverable
Beryllium	0.30	J	5.0	0.21	ug/L	1		6010B	Total Recoverable
Calcium	160000		5000	710	ug/L	1		6010B	Total Recoverable
Cadmium	0.60	J	2.0	0.29	ug/L	1		6010B	Total Recoverable
Cobalt	3.2	J	7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	220		5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	9.9	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	1800		100	25	ug/L	1		6010B	Total Recoverable
Potassium	3000	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	47000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	320		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	600000	B	50000	3300	ug/L	10		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161214MW-EPA-2V16N (Continued) — Lab Sample ID: 240-73378-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	130		40	1.6	ug/L	1		6010B	Total Recoverable
Zinc	23	J	50	16	ug/L	1		6010B	Total Recoverable
Tin	20	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-73378-11

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161213UAW21-30V27N
Date Collected: 12/13/16 12:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/21/16 15:55	1
Benzene	1.0	U	1.0	0.28	ug/L			12/21/16 15:55	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/21/16 15:55	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/21/16 15:55	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/21/16 15:55	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/21/16 15:55	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/21/16 15:55	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/21/16 15:55	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 15:55	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/21/16 15:55	1
Chloroform	**0.67**	**J**	1.0	0.31	ug/L			12/21/16 15:55	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/21/16 15:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 15:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/21/16 15:55	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/21/16 15:55	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/21/16 15:55	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/21/16 15:55	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/21/16 15:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/21/16 15:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 15:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/21/16 15:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 15:55	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/21/16 15:55	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/21/16 15:55	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/21/16 15:55	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/21/16 15:55	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/16 15:55	1
2-Hexanone	10	U	10	1.2	ug/L			12/21/16 15:55	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/21/16 15:55	1
Methyl acetate	10	U	10	1.4	ug/L			12/21/16 15:55	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/21/16 15:55	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/21/16 15:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/21/16 15:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/21/16 15:55	1
Styrene	1.0	U	1.0	0.23	ug/L			12/21/16 15:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/21/16 15:55	1
Tetrachloroethene	**7.3**		1.0	0.30	ug/L			12/21/16 15:55	1
Toluene	1.0	U	1.0	0.23	ug/L			12/21/16 15:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/16 15:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/21/16 15:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/21/16 15:55	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/16 15:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/21/16 15:55	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/21/16 15:55	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 15:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/21/16 15:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/21/16 15:55	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/21/16 15:55	1

Client Sample ID: 20161213UAW21-30V27N
Date Collected: 12/13/16 12:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*12/21/16 15:55*	*1*
Dibromofluoromethane (Surr)	*86*		*80 - 120*		*12/21/16 15:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 132*		*12/21/16 15:55*	*1*
Toluene-d8 (Surr)	*80*		*73 - 124*		*12/21/16 15:55*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.23	U	0.23	0.050	ug/L		12/20/16 09:01	12/22/16 17:50	1
Acenaphthylene	0.23	U	0.23	0.023	ug/L		12/20/16 09:01	12/22/16 17:50	1
Acetophenone	1.1	U	1.1	0.16	ug/L		12/20/16 09:01	12/22/16 17:50	1
Aniline	5.7	U	5.7	0.25	ug/L		12/20/16 09:01	12/22/16 17:50	1
Anthracene	0.23	U	0.23	0.035	ug/L		12/20/16 09:01	12/22/16 17:50	1
Atrazine	2.3	U	2.3	0.13	ug/L		12/20/16 09:01	12/22/16 17:50	1
Benzaldehyde	2.3	U	2.3	0.34	ug/L		12/20/16 09:01	12/22/16 17:50	1
Benzo[a]anthracene	0.23	U	0.23	0.067	ug/L		12/20/16 09:01	12/22/16 17:50	1
Benzo[b]fluoranthene	0.23	U	0.23	0.067	ug/L		12/20/16 09:01	12/22/16 17:50	1
Benzo[k]fluoranthene	0.23	U	0.23	0.055	ug/L		12/20/16 09:01	12/22/16 17:50	1
Benzo[g,h,i]perylene	0.23	U	0.23	0.057	ug/L		12/20/16 09:01	12/22/16 17:50	1
Benzo[a]pyrene	0.23	U	0.23	0.034	ug/L		12/20/16 09:01	12/22/16 17:50	1
Butyl benzyl phthalate	1.1	U *	1.1	0.25	ug/L		12/20/16 09:01	12/22/16 17:50	1
1,1'-Biphenyl	1.1	U	1.1	0.14	ug/L		12/20/16 09:01	12/22/16 17:50	1
Bis(2-chloroethoxy)methane	1.1	U	1.1	0.042	ug/L		12/20/16 09:01	12/22/16 17:50	1
Bis(2-chloroethyl)ether	1.1	U	1.1	0.22	ug/L		12/20/16 09:01	12/22/16 17:50	1
Bis(2-ethylhexyl) phthalate	2.3	U	2.3	1.7	ug/L		12/20/16 09:01	12/22/16 17:50	1
4-Bromophenyl phenyl ether	2.3	U	2.3	0.39	ug/L		12/20/16 09:01	12/22/16 17:50	1
Caprolactam	5.7	U	5.7	0.42	ug/L		12/20/16 09:01	12/22/16 17:50	1
Carbazole	1.1	U	1.1	0.12	ug/L		12/20/16 09:01	12/22/16 17:50	1
4-Chloroaniline	2.3	U	2.3	0.17	ug/L		12/20/16 09:01	12/22/16 17:50	1
4-Chloro-3-methylphenol	2.3	U	2.3	0.32	ug/L		12/20/16 09:01	12/22/16 17:50	1
2-Chloronaphthalene	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/22/16 17:50	1
2-Chlorophenol	1.1	U	1.1	0.15	ug/L		12/20/16 09:01	12/22/16 17:50	1
4-Chlorophenyl phenyl ether	2.3	U	2.3	0.33	ug/L		12/20/16 09:01	12/22/16 17:50	1
Chrysene	0.23	U	0.23	0.040	ug/L		12/20/16 09:01	12/22/16 17:50	1
2-Methylnaphthalene	0.23	U	0.23	0.042	ug/L		12/20/16 09:01	12/22/16 17:50	1
3 & 4 Methylphenol	2.3	U	2.3	0.38	ug/L		12/20/16 09:01	12/22/16 17:50	1
Dibenz(a,h)anthracene	0.23	U	0.23	0.045	ug/L		12/20/16 09:01	12/22/16 17:50	1
Dibenzofuran	1.1	U	1.1	0.16	ug/L		12/20/16 09:01	12/22/16 17:50	1
3,3'-Dichlorobenzidine	5.7	U	5.7	0.40	ug/L		12/20/16 09:01	12/22/16 17:50	1
2,4-Dichlorophenol	2.3	U	2.3	0.33	ug/L		12/20/16 09:01	12/22/16 17:50	1
Diethyl phthalate	1.1	U *	1.1	0.14	ug/L		12/20/16 09:01	12/22/16 17:50	1
2,4-Dimethylphenol	2.3	U	2.3	0.36	ug/L		12/20/16 09:01	12/22/16 17:50	1
Dimethyl phthalate	1.1	U *	1.1	0.11	ug/L		12/20/16 09:01	12/22/16 17:50	1
4,6-Dinitro-2-methylphenol	5.7	U	5.7	0.60	ug/L		12/20/16 09:01	12/22/16 17:50	1
2,4-Dinitrophenol	45	U	45	7.0	ug/L		12/20/16 09:01	12/22/16 17:50	1
2,4-Dinitrotoluene	5.7	U	5.7	0.29	ug/L		12/20/16 09:01	12/22/16 17:50	1
Di-n-butyl phthalate	1.1	U	1.1	0.45	ug/L		12/20/16 09:01	12/22/16 17:50	1
Di-n-octyl phthalate	1.1	U	1.1	0.41	ug/L		12/20/16 09:01	12/22/16 17:50	1
Fluoranthene	0.23	U	0.23	0.031	ug/L		12/20/16 09:01	12/22/16 17:50	1
Fluorene	0.23	U	0.23	0.039	ug/L		12/20/16 09:01	12/22/16 17:50	1
Hexachlorobenzene	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/22/16 17:50	1

Client Sample ID: 20161213UAW21-30V27N
Date Collected: 12/13/16 12:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.1	U	1.1	0.16	ug/L		12/20/16 09:01	12/22/16 17:50	1
Hexachlorocyclopentadiene	11	U	11	2.8	ug/L		12/20/16 09:01	12/22/16 17:50	1
Hexachloroethane	1.1	U	1.1	0.25	ug/L		12/20/16 09:01	12/22/16 17:50	1
Indeno[1,2,3-cd]pyrene	0.23	U	0.23	0.055	ug/L		12/20/16 09:01	12/22/16 17:50	1
Isophorone	1.1	U	1.1	0.048	ug/L		12/20/16 09:01	12/22/16 17:50	1
2-Methylphenol	1.1	U	1.1	0.21	ug/L		12/20/16 09:01	12/22/16 17:50	1
Naphthalene	0.23	U	0.23	0.049	ug/L		12/20/16 09:01	12/22/16 17:50	1
2-Nitroaniline	2.3	U	2.3	0.35	ug/L		12/20/16 09:01	12/22/16 17:50	1
3-Nitroaniline	2.3	U	2.3	0.30	ug/L		12/20/16 09:01	12/22/16 17:50	1
4-Nitroaniline	2.3	U	2.3	0.27	ug/L		12/20/16 09:01	12/22/16 17:50	1
Nitrobenzene	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/22/16 17:50	1
2-Nitrophenol	2.3	U	2.3	0.24	ug/L		12/20/16 09:01	12/22/16 17:50	1
4-Nitrophenol	5.7	U	5.7	0.67	ug/L		12/20/16 09:01	12/22/16 17:50	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/22/16 17:50	1
N-Nitrosodi-n-propylamine	1.1	U	1.1	0.18	ug/L		12/20/16 09:01	12/22/16 17:50	1
2,2'-oxybis(1-chloropropane)	1.1	U	1.1	0.21	ug/L		12/20/16 09:01	12/22/16 17:50	1
Pentachlorophenol	45	U	45	6.2	ug/L		12/20/16 09:01	12/22/16 17:50	1
Phenanthrene	0.23	U	0.23	0.035	ug/L		12/20/16 09:01	12/22/16 17:50	1
Phenol	1.1	U	1.1	0.17	ug/L		12/20/16 09:01	12/22/16 17:50	1
Pyrene	0.23	U	0.23	0.032	ug/L		12/20/16 09:01	12/22/16 17:50	1
2,4,5-Trichlorophenol	5.7	U	5.7	0.42	ug/L		12/20/16 09:01	12/22/16 17:50	1
2,4,6-Trichlorophenol	5.7	U	5.7	0.30	ug/L		12/20/16 09:01	12/22/16 17:50	1
2,6-Dinitrotoluene	5.7	U	5.7	0.27	ug/L		12/20/16 09:01	12/22/16 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*57*		*44 - 120*	*12/20/16 09:01*	*12/22/16 17:50*	*1*
2-Fluorophenol (Surr)	*69*		*26 - 120*	*12/20/16 09:01*	*12/22/16 17:50*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*36 - 120*	*12/20/16 09:01*	*12/22/16 17:50*	*1*
Nitrobenzene-d5 (Surr)	*65*		*44 - 120*	*12/20/16 09:01*	*12/22/16 17:50*	*1*
Phenol-d5 (Surr)	*51*		*16 - 120*	*12/20/16 09:01*	*12/22/16 17:50*	*1*
Terphenyl-d14 (Surr)	*63*		*43 - 120*	*12/20/16 09:01*	*12/22/16 17:50*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.22	U H	0.22	0.048	ug/L		12/23/16 09:03	12/27/16 11:22	1
Acenaphthylene	0.22	U H	0.22	0.022	ug/L		12/23/16 09:03	12/27/16 11:22	1
Acetophenone	1.1	U H	1.1	0.15	ug/L		12/23/16 09:03	12/27/16 11:22	1
Aniline	5.4	U H	5.4	0.24	ug/L		12/23/16 09:03	12/27/16 11:22	1
Anthracene	0.22	U H	0.22	0.034	ug/L		12/23/16 09:03	12/27/16 11:22	1
Atrazine	2.2	U H	2.2	0.13	ug/L		12/23/16 09:03	12/27/16 11:22	1
Benzaldehyde	2.2	U H	2.2	0.32	ug/L		12/23/16 09:03	12/27/16 11:22	1
Benzo[a]anthracene	0.22	U H	0.22	0.064	ug/L		12/23/16 09:03	12/27/16 11:22	1
Benzo[b]fluoranthene	0.22	U H	0.22	0.064	ug/L		12/23/16 09:03	12/27/16 11:22	1
Benzo[k]fluoranthene	0.22	U H	0.22	0.052	ug/L		12/23/16 09:03	12/27/16 11:22	1
Benzo[g,h,i]perylene	0.22	U H	0.22	0.054	ug/L		12/23/16 09:03	12/27/16 11:22	1
Benzo[a]pyrene	0.22	U H	0.22	0.033	ug/L		12/23/16 09:03	12/27/16 11:22	1
Butyl benzyl phthalate	1.1	U H	1.1	0.23	ug/L		12/23/16 09:03	12/27/16 11:22	1
1,1'-Biphenyl	1.1	U H	1.1	0.13	ug/L		12/23/16 09:03	12/27/16 11:22	1
Bis(2-chloroethoxy)methane	1.1	U H	1.1	0.040	ug/L		12/23/16 09:03	12/27/16 11:22	1
Bis(2-chloroethyl)ether	1.1	U H	1.1	0.21	ug/L		12/23/16 09:03	12/27/16 11:22	1

Client Sample ID: 20161213UAW21-30V27N
Date Collected: 12/13/16 12:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	2.2	U H	2.2	1.7	ug/L		12/23/16 09:03	12/27/16 11:22	1
4-Bromophenyl phenyl ether	2.2	U H	2.2	0.38	ug/L		12/23/16 09:03	12/27/16 11:22	1
Caprolactam	5.4	U H	5.4	0.40	ug/L		12/23/16 09:03	12/27/16 11:22	1
Carbazole	1.1	U H	1.1	0.11	ug/L		12/23/16 09:03	12/27/16 11:22	1
4-Chloroaniline	2.2	U H	2.2	0.16	ug/L		12/23/16 09:03	12/27/16 11:22	1
4-Chloro-3-methylphenol	2.2	U H	2.2	0.30	ug/L		12/23/16 09:03	12/27/16 11:22	1
2-Chloronaphthalene	1.1	U H	1.1	0.13	ug/L		12/23/16 09:03	12/27/16 11:22	1
2-Chlorophenol	1.1	U H	1.1	0.14	ug/L		12/23/16 09:03	12/27/16 11:22	1
4-Chlorophenyl phenyl ether	2.2	U H	2.2	0.32	ug/L		12/23/16 09:03	12/27/16 11:22	1
Chrysene	0.22	U H	0.22	0.038	ug/L		12/23/16 09:03	12/27/16 11:22	1
2-Methylnaphthalene	0.22	U H	0.22	0.040	ug/L		12/23/16 09:03	12/27/16 11:22	1
3 & 4 Methylphenol	2.2	U H	2.2	0.37	ug/L		12/23/16 09:03	12/27/16 11:22	1
Dibenz(a,h)anthracene	0.22	U H	0.22	0.043	ug/L		12/23/16 09:03	12/27/16 11:22	1
Dibenzofuran	1.1	U H	1.1	0.15	ug/L		12/23/16 09:03	12/27/16 11:22	1
3,3'-Dichlorobenzidine	5.4	U H	5.4	0.38	ug/L		12/23/16 09:03	12/27/16 11:22	1
2,4-Dichlorophenol	2.2	U H	2.2	0.32	ug/L		12/23/16 09:03	12/27/16 11:22	1
Diethyl phthalate	1.1	U H	1.1	0.14	ug/L		12/23/16 09:03	12/27/16 11:22	1
2,4-Dimethylphenol	2.2	U H	2.2	0.34	ug/L		12/23/16 09:03	12/27/16 11:22	1
Dimethyl phthalate	1.1	U H	1.1	0.11	ug/L		12/23/16 09:03	12/27/16 11:22	1
4,6-Dinitro-2-methylphenol	5.4	U H	5.4	0.57	ug/L		12/23/16 09:03	12/27/16 11:22	1
2,4-Dinitrophenol	43	U H	43	6.7	ug/L		12/23/16 09:03	12/27/16 11:22	1
2,4-Dinitrotoluene	5.4	U H	5.4	0.28	ug/L		12/23/16 09:03	12/27/16 11:22	1
Di-n-butyl phthalate	**0.69**	**J H B**	1.1	0.43	ug/L		12/23/16 09:03	12/27/16 11:22	1
Di-n-octyl phthalate	1.1	U H	1.1	0.40	ug/L		12/23/16 09:03	12/27/16 11:22	1
Fluoranthene	0.22	U H	0.22	0.029	ug/L		12/23/16 09:03	12/27/16 11:22	1
Fluorene	0.22	U H	0.22	0.037	ug/L		12/23/16 09:03	12/27/16 11:22	1
Hexachlorobenzene	1.1	U H	1.1	0.13	ug/L		12/23/16 09:03	12/27/16 11:22	1
Hexachlorobutadiene	1.1	U H	1.1	0.15	ug/L		12/23/16 09:03	12/27/16 11:22	1
Hexachlorocyclopentadiene	11	U H	11	2.7	ug/L		12/23/16 09:03	12/27/16 11:22	1
Hexachloroethane	1.1	U H	1.1	0.24	ug/L		12/23/16 09:03	12/27/16 11:22	1
Indeno[1,2,3-cd]pyrene	0.22	U H	0.22	0.052	ug/L		12/23/16 09:03	12/27/16 11:22	1
Isophorone	1.1	U H	1.1	0.046	ug/L		12/23/16 09:03	12/27/16 11:22	1
2-Methylphenol	1.1	U H	1.1	0.20	ug/L		12/23/16 09:03	12/27/16 11:22	1
Naphthalene	0.22	U H	0.22	0.047	ug/L		12/23/16 09:03	12/27/16 11:22	1
2-Nitroaniline	2.2	U H	2.2	0.33	ug/L		12/23/16 09:03	12/27/16 11:22	1
3-Nitroaniline	2.2	U H *	2.2	0.29	ug/L		12/23/16 09:03	12/27/16 11:22	1
4-Nitroaniline	2.2	U H	2.2	0.26	ug/L		12/23/16 09:03	12/27/16 11:22	1
Nitrobenzene	1.1	U H	1.1	0.13	ug/L		12/23/16 09:03	12/27/16 11:22	1
2-Nitrophenol	2.2	U H	2.2	0.23	ug/L		12/23/16 09:03	12/27/16 11:22	1
4-Nitrophenol	5.4	U H	5.4	0.64	ug/L		12/23/16 09:03	12/27/16 11:22	1
N-Nitrosodiphenylamine	1.1	U H	1.1	0.12	ug/L		12/23/16 09:03	12/27/16 11:22	1
N-Nitrosodi-n-propylamine	1.1	U H	1.1	0.17	ug/L		12/23/16 09:03	12/27/16 11:22	1
2,2'-oxybis(1-chloropropane)	1.1	U H	1.1	0.20	ug/L		12/23/16 09:03	12/27/16 11:22	1
Pentachlorophenol	43	U H	43	5.9	ug/L		12/23/16 09:03	12/27/16 11:22	1
Phenanthrene	0.22	U H	0.22	0.034	ug/L		12/23/16 09:03	12/27/16 11:22	1
Phenol	1.1	U H	1.1	0.16	ug/L		12/23/16 09:03	12/27/16 11:22	1
Pyrene	0.22	U H	0.22	0.030	ug/L		12/23/16 09:03	12/27/16 11:22	1
2,4,5-Trichlorophenol	5.4	U H	5.4	0.40	ug/L		12/23/16 09:03	12/27/16 11:22	1
2,4,6-Trichlorophenol	5.4	U H	5.4	0.28	ug/L		12/23/16 09:03	12/27/16 11:22	1

Client Sample ID: 20161213UAW21-30V27N
Date Collected: 12/13/16 12:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	5.4	U H	5.4	0.26	ug/L		12/23/16 09:03	12/27/16 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*44 - 120*	*12/23/16 09:03*	*12/27/16 11:22*	*1*
2-Fluorophenol (Surr)	*93*		*26 - 120*	*12/23/16 09:03*	*12/27/16 11:22*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*36 - 120*	*12/23/16 09:03*	*12/27/16 11:22*	*1*
Nitrobenzene-d5 (Surr)	*63*		*44 - 120*	*12/23/16 09:03*	*12/27/16 11:22*	*1*
Phenol-d5 (Surr)	*66*		*16 - 120*	*12/23/16 09:03*	*12/27/16 11:22*	*1*
Terphenyl-d14 (Surr)	*85*		*43 - 120*	*12/23/16 09:03*	*12/27/16 11:22*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/16/16 14:00	12/20/16 02:01	1
Antimony	10	U	10	3.1	ug/L		12/16/16 14:00	12/20/16 02:01	1
Barium	**71**	**J**	200	2.4	ug/L		12/16/16 14:00	12/20/16 02:01	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/16/16 14:00	12/20/16 02:01	1
Calcium	**100000**		5000	710	ug/L		12/16/16 14:00	12/20/16 02:01	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/16/16 14:00	12/20/16 02:01	1
Cobalt	**6.2**	**J**	7.0	0.84	ug/L		12/16/16 14:00	12/20/16 02:01	1
Chromium	**300**		5.0	0.55	ug/L		12/16/16 14:00	12/20/16 02:01	1
Copper	**8.3**	**J**	25	3.9	ug/L		12/16/16 14:00	12/20/16 02:01	1
Iron	**3200**		100	25	ug/L		12/16/16 14:00	12/20/16 02:01	1
Potassium	**2700**	**J**	5000	70	ug/L		12/16/16 14:00	12/20/16 02:01	1
Magnesium	**27000**		5000	230	ug/L		12/16/16 14:00	12/20/16 02:01	1
Manganese	**63**		15	5.1	ug/L		12/16/16 14:00	12/20/16 02:01	1
Silver	5.0	U	5.0	0.92	ug/L		12/16/16 14:00	12/20/16 02:01	1
Sodium	**39000**	**B**	5000	330	ug/L		12/16/16 14:00	12/20/16 02:01	1
Nickel	**220**		40	1.6	ug/L		12/16/16 14:00	12/20/16 02:01	1
Vanadium	10	U	10	4.4	ug/L		12/16/16 14:00	12/20/16 02:01	1
Zinc	50	U	50	16	ug/L		12/16/16 14:00	12/20/16 02:01	1
Arsenic	10	U	10	3.3	ug/L		12/16/16 14:00	12/20/16 02:01	1
Lead	5.0	U	5.0	1.9	ug/L		12/16/16 14:00	12/20/16 02:01	1
Selenium	15	U	15	5.1	ug/L		12/16/16 14:00	12/20/16 02:01	1
Thallium	**2.1**	**J**	10	2.1	ug/L		12/16/16 14:00	12/20/16 02:01	1
Tin	100	U	100	1.8	ug/L		12/16/16 14:00	12/20/16 02:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/16/16 14:00	12/17/16 11:37	1

Client Sample ID: 20161213MW-EPA-1V14N

Date Collected: 12/13/16 15:45
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**38000**		20000	3500	ug/L			12/22/16 11:34	2000
Benzene	200	U	200	56	ug/L			12/21/16 15:33	200
Bromodichloromethane	200	U	200	60	ug/L			12/21/16 15:33	200
Bromoform	200	U	200	86	ug/L			12/21/16 15:33	200
Bromomethane	200	U	200	84	ug/L			12/21/16 15:33	200
2-Butanone (MEK)	2000	U	2000	200	ug/L			12/21/16 15:33	200
Carbon disulfide	200	U	200	68	ug/L			12/21/16 15:33	200
Carbon tetrachloride	200	U	200	70	ug/L			12/21/16 15:33	200
Chlorobenzene	**5200**		200	64	ug/L			12/21/16 15:33	200
Chloroethane	200	U	200	82	ug/L			12/21/16 15:33	200
Chloroform	200	U	200	62	ug/L			12/21/16 15:33	200
Chloromethane	200	U	200	86	ug/L			12/21/16 15:33	200
cis-1,2-Dichloroethene	200	U	200	60	ug/L			12/21/16 15:33	200
cis-1,3-Dichloropropene	200	U	200	52	ug/L			12/21/16 15:33	200
Cyclohexane	200	U	200	88	ug/L			12/21/16 15:33	200
Dibromochloromethane	200	U	200	50	ug/L			12/21/16 15:33	200
1,2-Dibromo-3-Chloropropane	400	U	400	94	ug/L			12/21/16 15:33	200
1,2-Dibromoethane	200	U	200	46	ug/L			12/21/16 15:33	200
1,2-Dichlorobenzene	**300**		200	52	ug/L			12/21/16 15:33	200
1,3-Dichlorobenzene	200	U	200	64	ug/L			12/21/16 15:33	200
1,4-Dichlorobenzene	**330**		200	46	ug/L			12/21/16 15:33	200
Dichlorodifluoromethane	200	U	200	100	ug/L			12/21/16 15:33	200
1,1-Dichloroethane	200	U	200	50	ug/L			12/21/16 15:33	200
1,2-Dichloroethane	200	U	200	60	ug/L			12/21/16 15:33	200
1,1-Dichloroethene	200	U	200	54	ug/L			12/21/16 15:33	200
1,2-Dichloropropane	200	U	200	60	ug/L			12/21/16 15:33	200
Ethylbenzene	200	U	200	52	ug/L			12/21/16 15:33	200
2-Hexanone	2000	U	2000	250	ug/L			12/21/16 15:33	200
Isopropylbenzene	200	U	200	42	ug/L			12/21/16 15:33	200
Methyl acetate	2000	U	2000	290	ug/L			12/21/16 15:33	200
Methylcyclohexane	200	U	200	90	ug/L			12/21/16 15:33	200
Methylene Chloride	**190**	**J B**	200	110	ug/L			12/21/16 15:33	200
4-Methyl-2-pentanone (MIBK)	2000	U	2000	140	ug/L			12/21/16 15:33	200
Methyl tert-butyl ether	200	U	200	54	ug/L			12/21/16 15:33	200
Styrene	200	U	200	46	ug/L			12/21/16 15:33	200
1,1,2,2-Tetrachloroethane	200	U	200	64	ug/L			12/21/16 15:33	200
Tetrachloroethene	200	U	200	60	ug/L			12/21/16 15:33	200
Toluene	200	U	200	46	ug/L			12/21/16 15:33	200
trans-1,2-Dichloroethene	200	U	200	58	ug/L			12/21/16 15:33	200
trans-1,3-Dichloropropene	200	U	200	62	ug/L			12/21/16 15:33	200
1,2,4-Trichlorobenzene	200	U	200	54	ug/L			12/21/16 15:33	200
1,1,1-Trichloroethane	200	U	200	46	ug/L			12/21/16 15:33	200
1,1,2-Trichloroethane	200	U	200	68	ug/L			12/21/16 15:33	200
Trichloroethene	200	U	200	66	ug/L			12/21/16 15:33	200
Trichlorofluoromethane	200	U	200	100	ug/L			12/21/16 15:33	200
1,1,2-Trichloro-1,2,2-trifluoroethane	200	U	200	82	ug/L			12/21/16 15:33	200
Vinyl chloride	200	U	200	90	ug/L			12/21/16 15:33	200
Xylenes, Total	400	U	400	48	ug/L			12/21/16 15:33	200

Client Sample ID: 20161213MW-EPA-1V14N

Date Collected: 12/13/16 15:45
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		73 - 120		12/21/16 15:33	200
4-Bromofluorobenzene (Surr)	92		73 - 120		12/22/16 11:34	2000
Dibromofluoromethane (Surr)	87		80 - 120		12/21/16 15:33	200
Dibromofluoromethane (Surr)	88		80 - 120		12/22/16 11:34	2000
1,2-Dichloroethane-d4 (Surr)	82		63 - 132		12/21/16 15:33	200
1,2-Dichloroethane-d4 (Surr)	84		63 - 132		12/22/16 11:34	2000
Toluene-d8 (Surr)	82		73 - 124		12/21/16 15:33	200
Toluene-d8 (Surr)	81		73 - 124		12/22/16 11:34	2000

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.1	U	1.1	0.24	ug/L		12/20/16 09:01	12/23/16 15:20	5
Acenaphthylene	**24**		1.1	0.11	ug/L		12/20/16 09:01	12/23/16 15:20	5
Acetophenone	5.4	U	5.4	0.76	ug/L		12/20/16 09:01	12/23/16 15:20	5
Aniline	**130**		27	1.2	ug/L		12/20/16 09:01	12/23/16 15:20	5
Anthracene	**3.2**		1.1	0.17	ug/L		12/20/16 09:01	12/23/16 15:20	5
Atrazine	11	U	11	0.64	ug/L		12/20/16 09:01	12/23/16 15:20	5
Benzaldehyde	11	U	11	1.6	ug/L		12/20/16 09:01	12/23/16 15:20	5
Benzo[a]anthracene	1.1	U	1.1	0.32	ug/L		12/20/16 09:01	12/23/16 15:20	5
Benzo[b]fluoranthene	1.1	U	1.1	0.32	ug/L		12/20/16 09:01	12/23/16 15:20	5
Benzo[k]fluoranthene	1.1	U	1.1	0.26	ug/L		12/20/16 09:01	12/23/16 15:20	5
Benzo[g,h,i]perylene	1.1	U	1.1	0.27	ug/L		12/20/16 09:01	12/23/16 15:20	5
Benzo[a]pyrene	1.1	U	1.1	0.16	ug/L		12/20/16 09:01	12/23/16 15:20	5
Butyl benzyl phthalate	5.4	U *	5.4	1.2	ug/L		12/20/16 09:01	12/23/16 15:20	5
1,1'-Biphenyl	5.4	U	5.4	0.67	ug/L		12/20/16 09:01	12/23/16 15:20	5
Bis(2-chloroethoxy)methane	5.4	U	5.4	0.20	ug/L		12/20/16 09:01	12/23/16 15:20	5
Bis(2-chloroethyl)ether	5.4	U	5.4	1.0	ug/L		12/20/16 09:01	12/23/16 15:20	5
Bis(2-ethylhexyl) phthalate	11	U	11	8.3	ug/L		12/20/16 09:01	12/23/16 15:20	5
4-Bromophenyl phenyl ether	11	U	11	1.9	ug/L		12/20/16 09:01	12/23/16 15:20	5
Caprolactam	27	U	27	2.0	ug/L		12/20/16 09:01	12/23/16 15:20	5
Carbazole	5.4	U	5.4	0.57	ug/L		12/20/16 09:01	12/23/16 15:20	5
4-Chloroaniline	11	U	11	0.81	ug/L		12/20/16 09:01	12/23/16 15:20	5
4-Chloro-3-methylphenol	11	U	11	1.5	ug/L		12/20/16 09:01	12/23/16 15:20	5
2-Chloronaphthalene	5.4	U	5.4	0.63	ug/L		12/20/16 09:01	12/23/16 15:20	5
2-Chlorophenol	**9.8**		5.4	0.72	ug/L		12/20/16 09:01	12/23/16 15:20	5
4-Chlorophenyl phenyl ether	11	U	11	1.6	ug/L		12/20/16 09:01	12/23/16 15:20	5
Chrysene	1.1	U	1.1	0.19	ug/L		12/20/16 09:01	12/23/16 15:20	5
2-Methylnaphthalene	**1.6**		1.1	0.20	ug/L		12/20/16 09:01	12/23/16 15:20	5
3 & 4 Methylphenol	**8.3**	**J**	11	1.8	ug/L		12/20/16 09:01	12/23/16 15:20	5
Dibenz(a,h)anthracene	1.1	U	1.1	0.22	ug/L		12/20/16 09:01	12/23/16 15:20	5
Dibenzofuran	5.4	U	5.4	0.74	ug/L		12/20/16 09:01	12/23/16 15:20	5
3,3'-Dichlorobenzidine	27	U	27	1.9	ug/L		12/20/16 09:01	12/23/16 15:20	5
2,4-Dichlorophenol	11	U	11	1.6	ug/L		12/20/16 09:01	12/23/16 15:20	5
Diethyl phthalate	5.4	U *	5.4	0.68	ug/L		12/20/16 09:01	12/23/16 15:20	5
2,4-Dimethylphenol	11	U	11	1.7	ug/L		12/20/16 09:01	12/23/16 15:20	5
Dimethyl phthalate	5.4	U *	5.4	0.55	ug/L		12/20/16 09:01	12/23/16 15:20	5
4,6-Dinitro-2-methylphenol	27	U	27	2.9	ug/L		12/20/16 09:01	12/23/16 15:20	5
2,4-Dinitrophenol	220	U	220	33	ug/L		12/20/16 09:01	12/23/16 15:20	5
2,4-Dinitrotoluene	27	U	27	1.4	ug/L		12/20/16 09:01	12/23/16 15:20	5
Di-n-butyl phthalate	5.4	U	5.4	2.2	ug/L		12/20/16 09:01	12/23/16 15:20	5

Client Sample ID: 20161213MW-EPA-1V14N
Date Collected: 12/13/16 15:45
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	5.4	U	5.4	2.0	ug/L		12/20/16 09:01	12/23/16 15:20	5
Fluoranthene	**3.7**		1.1	0.15	ug/L		12/20/16 09:01	12/23/16 15:20	5
Fluorene	1.1	U	1.1	0.18	ug/L		12/20/16 09:01	12/23/16 15:20	5
Hexachlorobenzene	5.4	U	5.4	0.63	ug/L		12/20/16 09:01	12/23/16 15:20	5
Hexachlorobutadiene	5.4	U	5.4	0.77	ug/L		12/20/16 09:01	12/23/16 15:20	5
Hexachlorocyclopentadiene	54	U	54	13	ug/L		12/20/16 09:01	12/23/16 15:20	5
Hexachloroethane	5.4	U	5.4	1.2	ug/L		12/20/16 09:01	12/23/16 15:20	5
Indeno[1,2,3-cd]pyrene	1.1	U	1.1	0.26	ug/L		12/20/16 09:01	12/23/16 15:20	5
Isophorone	5.4	U	5.4	0.23	ug/L		12/20/16 09:01	12/23/16 15:20	5
2-Methylphenol	5.4	U	5.4	1.0	ug/L		12/20/16 09:01	12/23/16 15:20	5
Naphthalene	**11**		1.1	0.23	ug/L		12/20/16 09:01	12/23/16 15:20	5
2-Nitroaniline	11	U	11	1.7	ug/L		12/20/16 09:01	12/23/16 15:20	5
3-Nitroaniline	11	U	11	1.4	ug/L		12/20/16 09:01	12/23/16 15:20	5
4-Nitroaniline	11	U	11	1.3	ug/L		12/20/16 09:01	12/23/16 15:20	5
Nitrobenzene	5.4	U	5.4	0.64	ug/L		12/20/16 09:01	12/23/16 15:20	5
2-Nitrophenol	11	U	11	1.1	ug/L		12/20/16 09:01	12/23/16 15:20	5
4-Nitrophenol	27	U	27	3.2	ug/L		12/20/16 09:01	12/23/16 15:20	5
N-Nitrosodiphenylamine	5.4	U	5.4	0.61	ug/L		12/20/16 09:01	12/23/16 15:20	5
N-Nitrosodi-n-propylamine	5.4	U	5.4	0.86	ug/L		12/20/16 09:01	12/23/16 15:20	5
2,2'-oxybis(1-chloropropane)	5.4	U	5.4	0.99	ug/L		12/20/16 09:01	12/23/16 15:20	5
Pentachlorophenol	220	U	220	30	ug/L		12/20/16 09:01	12/23/16 15:20	5
Phenanthrene	**9.1**		1.1	0.17	ug/L		12/20/16 09:01	12/23/16 15:20	5
Phenol	**3.8**	**J**	5.4	0.82	ug/L		12/20/16 09:01	12/23/16 15:20	5
Pyrene	**9.3**		1.1	0.15	ug/L		12/20/16 09:01	12/23/16 15:20	5
2,4,5-Trichlorophenol	27	U	27	2.0	ug/L		12/20/16 09:01	12/23/16 15:20	5
2,4,6-Trichlorophenol	27	U	27	1.4	ug/L		12/20/16 09:01	12/23/16 15:20	5
2,6-Dinitrotoluene	27	U	27	1.3	ug/L		12/20/16 09:01	12/23/16 15:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*37*	*X*	*44 - 120*	*12/20/16 09:01*	*12/23/16 15:20*	*5*
2-Fluorophenol (Surr)	*27*		*26 - 120*	*12/20/16 09:01*	*12/23/16 15:20*	*5*
2,4,6-Tribromophenol (Surr)	*46*		*36 - 120*	*12/20/16 09:01*	*12/23/16 15:20*	*5*
Nitrobenzene-d5 (Surr)	*43*	*X*	*44 - 120*	*12/20/16 09:01*	*12/23/16 15:20*	*5*
Phenol-d5 (Surr)	*33*		*16 - 120*	*12/20/16 09:01*	*12/23/16 15:20*	*5*
Terphenyl-d14 (Surr)	*44*		*43 - 120*	*12/20/16 09:01*	*12/23/16 15:20*	*5*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1.2	U H	1.2	0.26	ug/L		12/23/16 09:03	12/27/16 15:02	5
Acenaphthylene	1.2	U H	1.2	0.12	ug/L		12/23/16 09:03	12/27/16 15:02	5
Acetophenone	6.0	U H	6.0	0.83	ug/L		12/23/16 09:03	12/27/16 15:02	5
Aniline	**150**	**H**	30	1.3	ug/L		12/23/16 09:03	12/27/16 15:02	5
Anthracene	1.2	U H	1.2	0.18	ug/L		12/23/16 09:03	12/27/16 15:02	5
Atrazine	12	U H	12	0.70	ug/L		12/23/16 09:03	12/27/16 15:02	5
Benzaldehyde	12	U H	12	1.8	ug/L		12/23/16 09:03	12/27/16 15:02	5
Benzo[a]anthracene	1.2	U H	1.2	0.35	ug/L		12/23/16 09:03	12/27/16 15:02	5
Benzo[b]fluoranthene	1.2	U H	1.2	0.35	ug/L		12/23/16 09:03	12/27/16 15:02	5
Benzo[k]fluoranthene	1.2	U H	1.2	0.29	ug/L		12/23/16 09:03	12/27/16 15:02	5
Benzo[g,h,i]perylene	1.2	U H	1.2	0.30	ug/L		12/23/16 09:03	12/27/16 15:02	5
Benzo[a]pyrene	1.2	U H	1.2	0.18	ug/L		12/23/16 09:03	12/27/16 15:02	5

Client Sample ID: 20161213MW-EPA-1V14N
Date Collected: 12/13/16 15:45
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	6.0	U H	6.0	1.3	ug/L		12/23/16 09:03	12/27/16 15:02	5
1,1'-Biphenyl	6.0	U H	6.0	0.74	ug/L		12/23/16 09:03	12/27/16 15:02	5
Bis(2-chloroethoxy)methane	6.0	U H	6.0	0.22	ug/L		12/23/16 09:03	12/27/16 15:02	5
Bis(2-chloroethyl)ether	6.0	U H	6.0	1.1	ug/L		12/23/16 09:03	12/27/16 15:02	5
Bis(2-ethylhexyl) phthalate	12	U H	12	9.1	ug/L		12/23/16 09:03	12/27/16 15:02	5
4-Bromophenyl phenyl ether	12	U H	12	2.1	ug/L		12/23/16 09:03	12/27/16 15:02	5
Caprolactam	30	U H	30	2.2	ug/L		12/23/16 09:03	12/27/16 15:02	5
Carbazole	6.0	U H	6.0	0.63	ug/L		12/23/16 09:03	12/27/16 15:02	5
4-Chloroaniline	12	U H	12	0.89	ug/L		12/23/16 09:03	12/27/16 15:02	5
4-Chloro-3-methylphenol	12	U H	12	1.7	ug/L		12/23/16 09:03	12/27/16 15:02	5
2-Chloronaphthalene	6.0	U H	6.0	0.68	ug/L		12/23/16 09:03	12/27/16 15:02	5
2-Chlorophenol	**17**	**H**	6.0	0.79	ug/L		12/23/16 09:03	12/27/16 15:02	5
4-Chlorophenyl phenyl ether	12	U H	12	1.8	ug/L		12/23/16 09:03	12/27/16 15:02	5
Chrysene	1.2	U H	1.2	0.21	ug/L		12/23/16 09:03	12/27/16 15:02	5
2-Methylnaphthalene	1.2	U H	1.2	0.22	ug/L		12/23/16 09:03	12/27/16 15:02	5
3 & 4 Methylphenol	**9.6**	**J H**	12	2.0	ug/L		12/23/16 09:03	12/27/16 15:02	5
Dibenz(a,h)anthracene	1.2	U H	1.2	0.24	ug/L		12/23/16 09:03	12/27/16 15:02	5
Dibenzofuran	6.0	U H	6.0	0.82	ug/L		12/23/16 09:03	12/27/16 15:02	5
3,3'-Dichlorobenzidine	30	U H	30	2.1	ug/L		12/23/16 09:03	12/27/16 15:02	5
2,4-Dichlorophenol	12	U H	12	1.8	ug/L		12/23/16 09:03	12/27/16 15:02	5
Diethyl phthalate	6.0	U H	6.0	0.74	ug/L		12/23/16 09:03	12/27/16 15:02	5
2,4-Dimethylphenol	12	U H	12	1.9	ug/L		12/23/16 09:03	12/27/16 15:02	5
Dimethyl phthalate	6.0	U H	6.0	0.60	ug/L		12/23/16 09:03	12/27/16 15:02	5
4,6-Dinitro-2-methylphenol	30	U H	30	3.1	ug/L		12/23/16 09:03	12/27/16 15:02	5
2,4-Dinitrophenol	240	U H	240	36	ug/L		12/23/16 09:03	12/27/16 15:02	5
2,4-Dinitrotoluene	30	U H	30	1.5	ug/L		12/23/16 09:03	12/27/16 15:02	5
Di-n-butyl phthalate	6.0	U H	6.0	2.4	ug/L		12/23/16 09:03	12/27/16 15:02	5
Di-n-octyl phthalate	6.0	U H	6.0	2.2	ug/L		12/23/16 09:03	12/27/16 15:02	5
Fluoranthene	1.2	U H	1.2	0.16	ug/L		12/23/16 09:03	12/27/16 15:02	5
Fluorene	1.2	U H	1.2	0.20	ug/L		12/23/16 09:03	12/27/16 15:02	5
Hexachlorobenzene	6.0	U H	6.0	0.68	ug/L		12/23/16 09:03	12/27/16 15:02	5
Hexachlorobutadiene	6.0	U H	6.0	0.84	ug/L		12/23/16 09:03	12/27/16 15:02	5
Hexachlorocyclopentadiene	60	U H	60	15	ug/L		12/23/16 09:03	12/27/16 15:02	5
Hexachloroethane	6.0	U H	6.0	1.3	ug/L		12/23/16 09:03	12/27/16 15:02	5
Indeno[1,2,3-cd]pyrene	1.2	U H	1.2	0.29	ug/L		12/23/16 09:03	12/27/16 15:02	5
Isophorone	6.0	U H	6.0	0.25	ug/L		12/23/16 09:03	12/27/16 15:02	5
2-Methylphenol	6.0	U H	6.0	1.1	ug/L		12/23/16 09:03	12/27/16 15:02	5
Naphthalene	1.2	U H	1.2	0.26	ug/L		12/23/16 09:03	12/27/16 15:02	5
2-Nitroaniline	12	U H	12	1.8	ug/L		12/23/16 09:03	12/27/16 15:02	5
3-Nitroaniline	12	U H *	12	1.6	ug/L		12/23/16 09:03	12/27/16 15:02	5
4-Nitroaniline	12	U H	12	1.4	ug/L		12/23/16 09:03	12/27/16 15:02	5
Nitrobenzene	6.0	U H	6.0	0.70	ug/L		12/23/16 09:03	12/27/16 15:02	5
2-Nitrophenol	12	U H	12	1.2	ug/L		12/23/16 09:03	12/27/16 15:02	5
4-Nitrophenol	30	U H	30	3.5	ug/L		12/23/16 09:03	12/27/16 15:02	5
N-Nitrosodiphenylamine	6.0	U H	6.0	0.67	ug/L		12/23/16 09:03	12/27/16 15:02	5
N-Nitrosodi-n-propylamine	6.0	U H	6.0	0.95	ug/L		12/23/16 09:03	12/27/16 15:02	5
2,2'-oxybis(1-chloropropane)	6.0	U H	6.0	1.1	ug/L		12/23/16 09:03	12/27/16 15:02	5
Pentachlorophenol	240	U H	240	33	ug/L		12/23/16 09:03	12/27/16 15:02	5
Phenanthrene	1.2	U H	1.2	0.18	ug/L		12/23/16 09:03	12/27/16 15:02	5

Client Sample ID: 20161213MW-EPA-1V14N
Date Collected: 12/13/16 15:45
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**7.7**	**H**	6.0	0.89	ug/L		12/23/16 09:03	12/27/16 15:02	5
Pyrene	1.2	U H	1.2	0.17	ug/L		12/23/16 09:03	12/27/16 15:02	5
2,4,5-Trichlorophenol	30	U H	30	2.2	ug/L		12/23/16 09:03	12/27/16 15:02	5
2,4,6-Trichlorophenol	30	U H	30	1.6	ug/L		12/23/16 09:03	12/27/16 15:02	5
2,6-Dinitrotoluene	30	U H	30	1.4	ug/L		12/23/16 09:03	12/27/16 15:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*54*		*44 - 120*	*12/23/16 09:03*	*12/27/16 15:02*	*5*
2-Fluorophenol (Surr)	*64*		*26 - 120*	*12/23/16 09:03*	*12/27/16 15:02*	*5*
2,4,6-Tribromophenol (Surr)	*66*		*36 - 120*	*12/23/16 09:03*	*12/27/16 15:02*	*5*
Nitrobenzene-d5 (Surr)	*60*		*44 - 120*	*12/23/16 09:03*	*12/27/16 15:02*	*5*
Phenol-d5 (Surr)	*65*		*16 - 120*	*12/23/16 09:03*	*12/27/16 15:02*	*5*
Terphenyl-d14 (Surr)	*66*		*43 - 120*	*12/23/16 09:03*	*12/27/16 15:02*	*5*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**41**	**J**	200	40	ug/L		12/16/16 14:00	12/20/16 03:17	1
Antimony	**18**		10	3.1	ug/L		12/16/16 14:00	12/20/16 03:17	1
Barium	**5300**		200	2.4	ug/L		12/16/16 14:00	12/20/16 03:17	1
Beryllium	**0.39**	**J**	5.0	0.21	ug/L		12/16/16 14:00	12/20/16 03:17	1
Calcium	**390000**		5000	710	ug/L		12/16/16 14:00	12/20/16 03:17	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/16/16 14:00	12/20/16 03:17	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/16/16 14:00	12/20/16 03:17	1
Chromium	**39**		5.0	0.55	ug/L		12/16/16 14:00	12/20/16 03:17	1
Copper	25	U	25	3.9	ug/L		12/16/16 14:00	12/20/16 03:17	1
Iron	**25000**		100	25	ug/L		12/16/16 14:00	12/20/16 03:17	1
Potassium	**27000**		5000	70	ug/L		12/16/16 14:00	12/20/16 03:17	1
Magnesium	**330000**		5000	230	ug/L		12/16/16 14:00	12/20/16 03:17	1
Manganese	**200**		15	5.1	ug/L		12/16/16 14:00	12/20/16 03:17	1
Silver	5.0	U	5.0	0.92	ug/L		12/16/16 14:00	12/20/16 03:17	1
Sodium	**1200000**	**B**	25000	1700	ug/L		12/16/16 14:00	12/27/16 20:47	5
Nickel	**58**		40	1.6	ug/L		12/16/16 14:00	12/20/16 03:17	1
Vanadium	**250**		10	4.4	ug/L		12/16/16 14:00	12/20/16 03:17	1
Zinc	**24**	**J**	50	16	ug/L		12/16/16 14:00	12/20/16 03:17	1
Arsenic	**340**		10	3.3	ug/L		12/16/16 14:00	12/20/16 03:17	1
Lead	5.0	U	5.0	1.9	ug/L		12/16/16 14:00	12/20/16 03:17	1
Selenium	15	U	15	5.1	ug/L		12/16/16 14:00	12/20/16 03:17	1
Thallium	10	U	10	2.1	ug/L		12/16/16 14:00	12/20/16 03:17	1
Tin	**4200**		100	1.8	ug/L		12/16/16 14:00	12/20/16 03:17	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/16/16 14:00	12/17/16 12:05	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Client Sample ID: 20161213CINRB-1
Date Collected: 12/13/16 08:00
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/21/16 16:18	1
Benzene	1.0	U	1.0	0.28	ug/L			12/21/16 16:18	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/21/16 16:18	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/21/16 16:18	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/21/16 16:18	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/21/16 16:18	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/21/16 16:18	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/21/16 16:18	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 16:18	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/21/16 16:18	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/21/16 16:18	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/21/16 16:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 16:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/21/16 16:18	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/21/16 16:18	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/21/16 16:18	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/21/16 16:18	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/21/16 16:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/21/16 16:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 16:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/21/16 16:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 16:18	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/21/16 16:18	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/21/16 16:18	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/21/16 16:18	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/21/16 16:18	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/16 16:18	1
2-Hexanone	10	U	10	1.2	ug/L			12/21/16 16:18	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/21/16 16:18	1
Methyl acetate	10	U	10	1.4	ug/L			12/21/16 16:18	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/21/16 16:18	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/21/16 16:18	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/21/16 16:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/21/16 16:18	1
Styrene	1.0	U	1.0	0.23	ug/L			12/21/16 16:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/21/16 16:18	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 16:18	1
Toluene	1.0	U	1.0	0.23	ug/L			12/21/16 16:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/16 16:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/21/16 16:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/21/16 16:18	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/16 16:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/21/16 16:18	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/21/16 16:18	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 16:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/21/16 16:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/21/16 16:18	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/21/16 16:18	1

Client Sample ID: 20161213CINRB-1
Date Collected: 12/13/16 08:00
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*12/21/16 16:18*	*1*
Dibromofluoromethane (Surr)	*85*		*80 - 120*		*12/21/16 16:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*63 - 132*		*12/21/16 16:18*	*1*
Toluene-d8 (Surr)	*82*		*73 - 124*		*12/21/16 16:18*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.042	ug/L		12/20/16 09:01	12/22/16 18:14	1
Acenaphthylene	0.19	U	0.19	0.019	ug/L		12/20/16 09:01	12/22/16 18:14	1
Acetophenone	0.96	U	0.96	0.13	ug/L		12/20/16 09:01	12/22/16 18:14	1
Aniline	4.8	U	4.8	0.21	ug/L		12/20/16 09:01	12/22/16 18:14	1
Anthracene	0.19	U	0.19	0.030	ug/L		12/20/16 09:01	12/22/16 18:14	1
Atrazine	1.9	U	1.9	0.11	ug/L		12/20/16 09:01	12/22/16 18:14	1
Benzaldehyde	1.9	U	1.9	0.28	ug/L		12/20/16 09:01	12/22/16 18:14	1
Benzo[a]anthracene	0.19	U	0.19	0.057	ug/L		12/20/16 09:01	12/22/16 18:14	1
Benzo[b]fluoranthene	0.19	U	0.19	0.057	ug/L		12/20/16 09:01	12/22/16 18:14	1
Benzo[k]fluoranthene	0.19	U	0.19	0.046	ug/L		12/20/16 09:01	12/22/16 18:14	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.048	ug/L		12/20/16 09:01	12/22/16 18:14	1
Benzo[a]pyrene	0.19	U	0.19	0.029	ug/L		12/20/16 09:01	12/22/16 18:14	1
Butyl benzyl phthalate	0.96	U *	0.96	0.21	ug/L		12/20/16 09:01	12/22/16 18:14	1
1,1'-Biphenyl	0.96	U	0.96	0.12	ug/L		12/20/16 09:01	12/22/16 18:14	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.036	ug/L		12/20/16 09:01	12/22/16 18:14	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.18	ug/L		12/20/16 09:01	12/22/16 18:14	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	1.5	ug/L		12/20/16 09:01	12/22/16 18:14	1
4-Bromophenyl phenyl ether	1.9	U	1.9	0.33	ug/L		12/20/16 09:01	12/22/16 18:14	1
Caprolactam	4.8	U	4.8	0.36	ug/L		12/20/16 09:01	12/22/16 18:14	1
Carbazole	0.96	U	0.96	0.10	ug/L		12/20/16 09:01	12/22/16 18:14	1
4-Chloroaniline	1.9	U	1.9	0.14	ug/L		12/20/16 09:01	12/22/16 18:14	1
4-Chloro-3-methylphenol	1.9	U	1.9	0.27	ug/L		12/20/16 09:01	12/22/16 18:14	1
2-Chloronaphthalene	0.96	U	0.96	0.11	ug/L		12/20/16 09:01	12/22/16 18:14	1
2-Chlorophenol	0.96	U	0.96	0.13	ug/L		12/20/16 09:01	12/22/16 18:14	1
4-Chlorophenyl phenyl ether	1.9	U	1.9	0.28	ug/L		12/20/16 09:01	12/22/16 18:14	1
Chrysene	0.19	U	0.19	0.034	ug/L		12/20/16 09:01	12/22/16 18:14	1
2-Methylnaphthalene	0.19	U	0.19	0.036	ug/L		12/20/16 09:01	12/22/16 18:14	1
3 & 4 Methylphenol	1.9	U	1.9	0.32	ug/L		12/20/16 09:01	12/22/16 18:14	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.038	ug/L		12/20/16 09:01	12/22/16 18:14	1
Dibenzofuran	0.96	U	0.96	0.13	ug/L		12/20/16 09:01	12/22/16 18:14	1
3,3'-Dichlorobenzidine	4.8	U	4.8	0.34	ug/L		12/20/16 09:01	12/22/16 18:14	1
2,4-Dichlorophenol	1.9	U	1.9	0.28	ug/L		12/20/16 09:01	12/22/16 18:14	1
Diethyl phthalate	0.96	U *	0.96	0.12	ug/L		12/20/16 09:01	12/22/16 18:14	1
2,4-Dimethylphenol	1.9	U	1.9	0.30	ug/L		12/20/16 09:01	12/22/16 18:14	1
Dimethyl phthalate	0.96	U *	0.96	0.097	ug/L		12/20/16 09:01	12/22/16 18:14	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.50	ug/L		12/20/16 09:01	12/22/16 18:14	1
2,4-Dinitrophenol	38	U	38	5.9	ug/L		12/20/16 09:01	12/22/16 18:14	1
2,4-Dinitrotoluene	4.8	U	4.8	0.25	ug/L		12/20/16 09:01	12/22/16 18:14	1
Di-n-butyl phthalate	0.96	U	0.96	0.38	ug/L		12/20/16 09:01	12/22/16 18:14	1
Di-n-octyl phthalate	0.96	U	0.96	0.35	ug/L		12/20/16 09:01	12/22/16 18:14	1
Fluoranthene	0.19	U	0.19	0.026	ug/L		12/20/16 09:01	12/22/16 18:14	1
Fluorene	0.19	U	0.19	0.033	ug/L		12/20/16 09:01	12/22/16 18:14	1
Hexachlorobenzene	0.96	U	0.96	0.11	ug/L		12/20/16 09:01	12/22/16 18:14	1

Client Sample ID: 20161213CINRB-1
Date Collected: 12/13/16 08:00
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.96	U	0.96	0.14	ug/L		12/20/16 09:01	12/22/16 18:14	1
Hexachlorocyclopentadiene	9.6	U	9.6	2.4	ug/L		12/20/16 09:01	12/22/16 18:14	1
Hexachloroethane	0.96	U	0.96	0.21	ug/L		12/20/16 09:01	12/22/16 18:14	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.046	ug/L		12/20/16 09:01	12/22/16 18:14	1
Isophorone	0.96	U	0.96	0.040	ug/L		12/20/16 09:01	12/22/16 18:14	1
2-Methylphenol	0.96	U	0.96	0.18	ug/L		12/20/16 09:01	12/22/16 18:14	1
Naphthalene	0.19	U	0.19	0.041	ug/L		12/20/16 09:01	12/22/16 18:14	1
2-Nitroaniline	1.9	U	1.9	0.30	ug/L		12/20/16 09:01	12/22/16 18:14	1
3-Nitroaniline	1.9	U	1.9	0.25	ug/L		12/20/16 09:01	12/22/16 18:14	1
4-Nitroaniline	1.9	U	1.9	0.23	ug/L		12/20/16 09:01	12/22/16 18:14	1
Nitrobenzene	0.96	U	0.96	0.11	ug/L		12/20/16 09:01	12/22/16 18:14	1
2-Nitrophenol	1.9	U	1.9	0.20	ug/L		12/20/16 09:01	12/22/16 18:14	1
4-Nitrophenol	4.8	U	4.8	0.56	ug/L		12/20/16 09:01	12/22/16 18:14	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.11	ug/L		12/20/16 09:01	12/22/16 18:14	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.15	ug/L		12/20/16 09:01	12/22/16 18:14	1
2,2'-oxybis(1-chloropropane)	0.96	U	0.96	0.18	ug/L		12/20/16 09:01	12/22/16 18:14	1
Pentachlorophenol	38	U	38	5.3	ug/L		12/20/16 09:01	12/22/16 18:14	1
Phenanthrene	0.19	U	0.19	0.030	ug/L		12/20/16 09:01	12/22/16 18:14	1
Phenol	0.96	U	0.96	0.14	ug/L		12/20/16 09:01	12/22/16 18:14	1
Pyrene	0.19	U	0.19	0.027	ug/L		12/20/16 09:01	12/22/16 18:14	1
2,4,5-Trichlorophenol	4.8	U	4.8	0.35	ug/L		12/20/16 09:01	12/22/16 18:14	1
2,4,6-Trichlorophenol	4.8	U	4.8	0.25	ug/L		12/20/16 09:01	12/22/16 18:14	1
2,6-Dinitrotoluene	4.8	U	4.8	0.23	ug/L		12/20/16 09:01	12/22/16 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*44 - 120*	*12/20/16 09:01*	*12/22/16 18:14*	*1*
2-Fluorophenol (Surr)	*65*		*26 - 120*	*12/20/16 09:01*	*12/22/16 18:14*	*1*
2,4,6-Tribromophenol (Surr)	*36*		*36 - 120*	*12/20/16 09:01*	*12/22/16 18:14*	*1*
Nitrobenzene-d5 (Surr)	*65*		*44 - 120*	*12/20/16 09:01*	*12/22/16 18:14*	*1*
Phenol-d5 (Surr)	*53*		*16 - 120*	*12/20/16 09:01*	*12/22/16 18:14*	*1*
Terphenyl-d14 (Surr)	*70*		*43 - 120*	*12/20/16 09:01*	*12/22/16 18:14*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U H	0.19	0.042	ug/L		12/23/16 09:03	12/27/16 11:46	1
Acenaphthylene	0.19	U H	0.19	0.019	ug/L		12/23/16 09:03	12/27/16 11:46	1
Acetophenone	0.96	U H	0.96	0.13	ug/L		12/23/16 09:03	12/27/16 11:46	1
Aniline	4.8	U H	4.8	0.21	ug/L		12/23/16 09:03	12/27/16 11:46	1
Anthracene	0.19	U H	0.19	0.030	ug/L		12/23/16 09:03	12/27/16 11:46	1
Atrazine	1.9	U H	1.9	0.11	ug/L		12/23/16 09:03	12/27/16 11:46	1
Benzaldehyde	1.9	U H	1.9	0.28	ug/L		12/23/16 09:03	12/27/16 11:46	1
Benzo[a]anthracene	0.19	U H	0.19	0.057	ug/L		12/23/16 09:03	12/27/16 11:46	1
Benzo[b]fluoranthene	0.19	U H	0.19	0.057	ug/L		12/23/16 09:03	12/27/16 11:46	1
Benzo[k]fluoranthene	0.19	U H	0.19	0.046	ug/L		12/23/16 09:03	12/27/16 11:46	1
Benzo[g,h,i]perylene	0.19	U H	0.19	0.048	ug/L		12/23/16 09:03	12/27/16 11:46	1
Benzo[a]pyrene	0.19	U H	0.19	0.029	ug/L		12/23/16 09:03	12/27/16 11:46	1
Butyl benzyl phthalate	0.96	U H	0.96	0.21	ug/L		12/23/16 09:03	12/27/16 11:46	1
1,1'-Biphenyl	0.96	U H	0.96	0.12	ug/L		12/23/16 09:03	12/27/16 11:46	1
Bis(2-chloroethoxy)methane	0.96	U H	0.96	0.036	ug/L		12/23/16 09:03	12/27/16 11:46	1
Bis(2-chloroethyl)ether	0.96	U H	0.96	0.18	ug/L		12/23/16 09:03	12/27/16 11:46	1

Client Sample ID: 20161213CINRB-1
Date Collected: 12/13/16 08:00
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	1.9	U H	1.9	1.5	ug/L		12/23/16 09:03	12/27/16 11:46	1
4-Bromophenyl phenyl ether	1.9	U H	1.9	0.33	ug/L		12/23/16 09:03	12/27/16 11:46	1
Caprolactam	4.8	U H	4.8	0.36	ug/L		12/23/16 09:03	12/27/16 11:46	1
Carbazole	0.96	U H	0.96	0.10	ug/L		12/23/16 09:03	12/27/16 11:46	1
4-Chloroaniline	1.9	U H	1.9	0.14	ug/L		12/23/16 09:03	12/27/16 11:46	1
4-Chloro-3-methylphenol	1.9	U H	1.9	0.27	ug/L		12/23/16 09:03	12/27/16 11:46	1
2-Chloronaphthalene	0.96	U H	0.96	0.11	ug/L		12/23/16 09:03	12/27/16 11:46	1
2-Chlorophenol	0.96	U H	0.96	0.13	ug/L		12/23/16 09:03	12/27/16 11:46	1
4-Chlorophenyl phenyl ether	1.9	U H	1.9	0.28	ug/L		12/23/16 09:03	12/27/16 11:46	1
Chrysene	0.19	U H	0.19	0.034	ug/L		12/23/16 09:03	12/27/16 11:46	1
2-Methylnaphthalene	0.19	U H	0.19	0.036	ug/L		12/23/16 09:03	12/27/16 11:46	1
3 & 4 Methylphenol	1.9	U H	1.9	0.32	ug/L		12/23/16 09:03	12/27/16 11:46	1
Dibenz(a,h)anthracene	0.19	U H	0.19	0.038	ug/L		12/23/16 09:03	12/27/16 11:46	1
Dibenzofuran	0.96	U H	0.96	0.13	ug/L		12/23/16 09:03	12/27/16 11:46	1
3,3'-Dichlorobenzidine	4.8	U H	4.8	0.34	ug/L		12/23/16 09:03	12/27/16 11:46	1
2,4-Dichlorophenol	1.9	U H	1.9	0.28	ug/L		12/23/16 09:03	12/27/16 11:46	1
Diethyl phthalate	0.96	U H	0.96	0.12	ug/L		12/23/16 09:03	12/27/16 11:46	1
2,4-Dimethylphenol	1.9	U H	1.9	0.30	ug/L		12/23/16 09:03	12/27/16 11:46	1
Dimethyl phthalate	0.96	U H	0.96	0.097	ug/L		12/23/16 09:03	12/27/16 11:46	1
4,6-Dinitro-2-methylphenol	4.8	U H	4.8	0.50	ug/L		12/23/16 09:03	12/27/16 11:46	1
2,4-Dinitrophenol	38	U H	38	5.9	ug/L		12/23/16 09:03	12/27/16 11:46	1
2,4-Dinitrotoluene	4.8	U H	4.8	0.25	ug/L		12/23/16 09:03	12/27/16 11:46	1
Di-n-butyl phthalate	**0.55**	**J H B**	0.96	0.38	ug/L		12/23/16 09:03	12/27/16 11:46	1
Di-n-octyl phthalate	0.96	U H	0.96	0.35	ug/L		12/23/16 09:03	12/27/16 11:46	1
Fluoranthene	0.19	U H	0.19	0.026	ug/L		12/23/16 09:03	12/27/16 11:46	1
Fluorene	0.19	U H	0.19	0.033	ug/L		12/23/16 09:03	12/27/16 11:46	1
Hexachlorobenzene	0.96	U H	0.96	0.11	ug/L		12/23/16 09:03	12/27/16 11:46	1
Hexachlorobutadiene	0.96	U H	0.96	0.14	ug/L		12/23/16 09:03	12/27/16 11:46	1
Hexachlorocyclopentadiene	9.6	U H	9.6	2.4	ug/L		12/23/16 09:03	12/27/16 11:46	1
Hexachloroethane	0.96	U H	0.96	0.21	ug/L		12/23/16 09:03	12/27/16 11:46	1
Indeno[1,2,3-cd]pyrene	0.19	U H	0.19	0.046	ug/L		12/23/16 09:03	12/27/16 11:46	1
Isophorone	0.96	U H	0.96	0.040	ug/L		12/23/16 09:03	12/27/16 11:46	1
2-Methylphenol	0.96	U H	0.96	0.18	ug/L		12/23/16 09:03	12/27/16 11:46	1
Naphthalene	0.19	U H	0.19	0.041	ug/L		12/23/16 09:03	12/27/16 11:46	1
2-Nitroaniline	1.9	U H	1.9	0.30	ug/L		12/23/16 09:03	12/27/16 11:46	1
3-Nitroaniline	1.9	U H *	1.9	0.25	ug/L		12/23/16 09:03	12/27/16 11:46	1
4-Nitroaniline	1.9	U H	1.9	0.23	ug/L		12/23/16 09:03	12/27/16 11:46	1
Nitrobenzene	0.96	U H	0.96	0.11	ug/L		12/23/16 09:03	12/27/16 11:46	1
2-Nitrophenol	1.9	U H	1.9	0.20	ug/L		12/23/16 09:03	12/27/16 11:46	1
4-Nitrophenol	4.8	U H	4.8	0.56	ug/L		12/23/16 09:03	12/27/16 11:46	1
N-Nitrosodiphenylamine	0.96	U H	0.96	0.11	ug/L		12/23/16 09:03	12/27/16 11:46	1
N-Nitrosodi-n-propylamine	0.96	U H	0.96	0.15	ug/L		12/23/16 09:03	12/27/16 11:46	1
2,2'-oxybis(1-chloropropane)	0.96	U H	0.96	0.18	ug/L		12/23/16 09:03	12/27/16 11:46	1
Pentachlorophenol	38	U H	38	5.3	ug/L		12/23/16 09:03	12/27/16 11:46	1
Phenanthrene	0.19	U H	0.19	0.030	ug/L		12/23/16 09:03	12/27/16 11:46	1
Phenol	0.96	U H	0.96	0.14	ug/L		12/23/16 09:03	12/27/16 11:46	1
Pyrene	0.19	U H	0.19	0.027	ug/L		12/23/16 09:03	12/27/16 11:46	1
2,4,5-Trichlorophenol	4.8	U H	4.8	0.35	ug/L		12/23/16 09:03	12/27/16 11:46	1
2,4,6-Trichlorophenol	4.8	U H	4.8	0.25	ug/L		12/23/16 09:03	12/27/16 11:46	1

Client Sample ID: 20161213CINRB-1
Date Collected: 12/13/16 08:00
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	4.8	U H	4.8	0.23	ug/L		12/23/16 09:03	12/27/16 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*44 - 120*	*12/23/16 09:03*	*12/27/16 11:46*	*1*
2-Fluorophenol (Surr)	*78*		*26 - 120*	*12/23/16 09:03*	*12/27/16 11:46*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*36 - 120*	*12/23/16 09:03*	*12/27/16 11:46*	*1*
Nitrobenzene-d5 (Surr)	*66*		*44 - 120*	*12/23/16 09:03*	*12/27/16 11:46*	*1*
Phenol-d5 (Surr)	*59*		*16 - 120*	*12/23/16 09:03*	*12/27/16 11:46*	*1*
Terphenyl-d14 (Surr)	*75*		*43 - 120*	*12/23/16 09:03*	*12/27/16 11:46*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**96**	**J**	200	40	ug/L		12/16/16 14:00	12/20/16 03:22	1
Antimony	10	U	10	3.1	ug/L		12/16/16 14:00	12/20/16 03:22	1
Barium	**7.2**	**J**	200	2.4	ug/L		12/16/16 14:00	12/20/16 03:22	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/16/16 14:00	12/20/16 03:22	1
Calcium	**820**	**J**	5000	710	ug/L		12/16/16 14:00	12/20/16 03:22	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/16/16 14:00	12/20/16 03:22	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/16/16 14:00	12/20/16 03:22	1
Chromium	**1.3**	**J**	5.0	0.55	ug/L		12/16/16 14:00	12/20/16 03:22	1
Copper	**8.4**	**J**	25	3.9	ug/L		12/16/16 14:00	12/20/16 03:22	1
Iron	**50**	**J**	100	25	ug/L		12/16/16 14:00	12/20/16 03:22	1
Potassium	5000	U	5000	70	ug/L		12/16/16 14:00	12/20/16 03:22	1
Magnesium	5000	U	5000	230	ug/L		12/16/16 14:00	12/20/16 03:22	1
Manganese	15	U	15	5.1	ug/L		12/16/16 14:00	12/20/16 03:22	1
Silver	5.0	U	5.0	0.92	ug/L		12/16/16 14:00	12/20/16 03:22	1
Sodium	**1900**	**J B**	5000	330	ug/L		12/16/16 14:00	12/20/16 03:22	1
Nickel	40	U	40	1.6	ug/L		12/16/16 14:00	12/20/16 03:22	1
Vanadium	10	U	10	4.4	ug/L		12/16/16 14:00	12/20/16 03:22	1
Zinc	50	U	50	16	ug/L		12/16/16 14:00	12/20/16 03:22	1
Arsenic	10	U	10	3.3	ug/L		12/16/16 14:00	12/20/16 03:22	1
Lead	5.0	U	5.0	1.9	ug/L		12/16/16 14:00	12/20/16 03:22	1
Selenium	15	U	15	5.1	ug/L		12/16/16 14:00	12/20/16 03:22	1
Thallium	10	U	10	2.1	ug/L		12/16/16 14:00	12/20/16 03:22	1
Tin	**10**	**J**	100	1.8	ug/L		12/16/16 14:00	12/20/16 03:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/16/16 14:00	12/17/16 12:07	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Client Sample ID: 20161214UAW17-40V36N
Date Collected: 12/14/16 11:45
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/21/16 16:40	1
Benzene	1.0	U	1.0	0.28	ug/L			12/21/16 16:40	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/21/16 16:40	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/21/16 16:40	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/21/16 16:40	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/21/16 16:40	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/21/16 16:40	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/21/16 16:40	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 16:40	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/21/16 16:40	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/21/16 16:40	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/21/16 16:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 16:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/21/16 16:40	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/21/16 16:40	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/21/16 16:40	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/21/16 16:40	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/21/16 16:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/21/16 16:40	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 16:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/21/16 16:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 16:40	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/21/16 16:40	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/21/16 16:40	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/21/16 16:40	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/21/16 16:40	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/16 16:40	1
2-Hexanone	10	U	10	1.2	ug/L			12/21/16 16:40	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/21/16 16:40	1
Methyl acetate	10	U	10	1.4	ug/L			12/21/16 16:40	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/21/16 16:40	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/21/16 16:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/21/16 16:40	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/21/16 16:40	1
Styrene	1.0	U	1.0	0.23	ug/L			12/21/16 16:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/21/16 16:40	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 16:40	1
Toluene	1.0	U	1.0	0.23	ug/L			12/21/16 16:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/16 16:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/21/16 16:40	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/21/16 16:40	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/16 16:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/21/16 16:40	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/21/16 16:40	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 16:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/21/16 16:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/21/16 16:40	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/21/16 16:40	1

Client Sample ID: 20161214UAW17-40V36N
Date Collected: 12/14/16 11:45
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*12/21/16 16:40*	*1*
Dibromofluoromethane (Surr)	*86*		*80 - 120*		*12/21/16 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 132*		*12/21/16 16:40*	*1*
Toluene-d8 (Surr)	*81*		*73 - 124*		*12/21/16 16:40*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21	U	0.21	0.046	ug/L		12/20/16 09:01	12/23/16 12:05	1
Acenaphthylene	0.21	U	0.21	0.021	ug/L		12/20/16 09:01	12/23/16 12:05	1
Acetophenone	1.0	U	1.0	0.15	ug/L		12/20/16 09:01	12/23/16 12:05	1
Aniline	5.2	U	5.2	0.23	ug/L		12/20/16 09:01	12/23/16 12:05	1
Anthracene	0.21	U	0.21	0.032	ug/L		12/20/16 09:01	12/23/16 12:05	1
Atrazine	2.1	U	2.1	0.12	ug/L		12/20/16 09:01	12/23/16 12:05	1
Benzaldehyde	2.1	U	2.1	0.31	ug/L		12/20/16 09:01	12/23/16 12:05	1
Benzo[a]anthracene	0.21	U	0.21	0.061	ug/L		12/20/16 09:01	12/23/16 12:05	1
Benzo[b]fluoranthene	0.21	U	0.21	0.061	ug/L		12/20/16 09:01	12/23/16 12:05	1
Benzo[k]fluoranthene	0.21	U	0.21	0.050	ug/L		12/20/16 09:01	12/23/16 12:05	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.052	ug/L		12/20/16 09:01	12/23/16 12:05	1
Benzo[a]pyrene	0.21	U	0.21	0.031	ug/L		12/20/16 09:01	12/23/16 12:05	1
Butyl benzyl phthalate	1.0	U *	1.0	0.23	ug/L		12/20/16 09:01	12/23/16 12:05	1
1,1'-Biphenyl	1.0	U	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 12:05	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.039	ug/L		12/20/16 09:01	12/23/16 12:05	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.20	ug/L		12/20/16 09:01	12/23/16 12:05	1
Bis(2-ethylhexyl) phthalate	2.1	U	2.1	1.6	ug/L		12/20/16 09:01	12/23/16 12:05	1
4-Bromophenyl phenyl ether	2.1	U	2.1	0.36	ug/L		12/20/16 09:01	12/23/16 12:05	1
Caprolactam	5.2	U	5.2	0.39	ug/L		12/20/16 09:01	12/23/16 12:05	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 12:05	1
4-Chloroaniline	2.1	U	2.1	0.16	ug/L		12/20/16 09:01	12/23/16 12:05	1
4-Chloro-3-methylphenol	2.1	U	2.1	0.29	ug/L		12/20/16 09:01	12/23/16 12:05	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 12:05	1
2-Chlorophenol	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 12:05	1
4-Chlorophenyl phenyl ether	2.1	U	2.1	0.31	ug/L		12/20/16 09:01	12/23/16 12:05	1
Chrysene	0.21	U	0.21	0.036	ug/L		12/20/16 09:01	12/23/16 12:05	1
2-Methylnaphthalene	0.21	U	0.21	0.039	ug/L		12/20/16 09:01	12/23/16 12:05	1
3 & 4 Methylphenol	2.1	U	2.1	0.35	ug/L		12/20/16 09:01	12/23/16 12:05	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.042	ug/L		12/20/16 09:01	12/23/16 12:05	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 12:05	1
3,3'-Dichlorobenzidine	5.2	U	5.2	0.37	ug/L		12/20/16 09:01	12/23/16 12:05	1
2,4-Dichlorophenol	2.1	U	2.1	0.31	ug/L		12/20/16 09:01	12/23/16 12:05	1
Diethyl phthalate	1.0	U *	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 12:05	1
2,4-Dimethylphenol	2.1	U	2.1	0.33	ug/L		12/20/16 09:01	12/23/16 12:05	1
Dimethyl phthalate	1.0	U *	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 12:05	1
4,6-Dinitro-2-methylphenol	5.2	U	5.2	0.55	ug/L		12/20/16 09:01	12/23/16 12:05	1
2,4-Dinitrophenol	42	U	42	6.4	ug/L		12/20/16 09:01	12/23/16 12:05	1
2,4-Dinitrotoluene	5.2	U	5.2	0.27	ug/L		12/20/16 09:01	12/23/16 12:05	1
Di-n-butyl phthalate	1.0	U	1.0	0.41	ug/L		12/20/16 09:01	12/23/16 12:05	1
Di-n-octyl phthalate	1.0	U	1.0	0.38	ug/L		12/20/16 09:01	12/23/16 12:05	1
Fluoranthene	0.21	U	0.21	0.028	ug/L		12/20/16 09:01	12/23/16 12:05	1
Fluorene	0.21	U	0.21	0.035	ug/L		12/20/16 09:01	12/23/16 12:05	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 12:05	1

Client Sample ID: 20161214UAW17-40V36N
Date Collected: 12/14/16 11:45
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.15	ug/L		12/20/16 09:01	12/23/16 12:05	1
Hexachlorocyclopentadiene	10	U	10	2.6	ug/L		12/20/16 09:01	12/23/16 12:05	1
Hexachloroethane	1.0	U	1.0	0.23	ug/L		12/20/16 09:01	12/23/16 12:05	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.050	ug/L		12/20/16 09:01	12/23/16 12:05	1
Isophorone	1.0	U	1.0	0.044	ug/L		12/20/16 09:01	12/23/16 12:05	1
2-Methylphenol	1.0	U	1.0	0.20	ug/L		12/20/16 09:01	12/23/16 12:05	1
Naphthalene	0.21	U	0.21	0.045	ug/L		12/20/16 09:01	12/23/16 12:05	1
2-Nitroaniline	2.1	U	2.1	0.32	ug/L		12/20/16 09:01	12/23/16 12:05	1
3-Nitroaniline	2.1	U	2.1	0.28	ug/L		12/20/16 09:01	12/23/16 12:05	1
4-Nitroaniline	2.1	U	2.1	0.25	ug/L		12/20/16 09:01	12/23/16 12:05	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 12:05	1
2-Nitrophenol	2.1	U	2.1	0.22	ug/L		12/20/16 09:01	12/23/16 12:05	1
4-Nitrophenol	5.2	U	5.2	0.61	ug/L		12/20/16 09:01	12/23/16 12:05	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 12:05	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.17	ug/L		12/20/16 09:01	12/23/16 12:05	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/23/16 12:05	1
Pentachlorophenol	42	U	42	5.7	ug/L		12/20/16 09:01	12/23/16 12:05	1
Phenanthrene	0.21	U	0.21	0.032	ug/L		12/20/16 09:01	12/23/16 12:05	1
Phenol	1.0	U	1.0	0.16	ug/L		12/20/16 09:01	12/23/16 12:05	1
Pyrene	0.21	U	0.21	0.029	ug/L		12/20/16 09:01	12/23/16 12:05	1
2,4,5-Trichlorophenol	5.2	U	5.2	0.38	ug/L		12/20/16 09:01	12/23/16 12:05	1
2,4,6-Trichlorophenol	5.2	U	5.2	0.27	ug/L		12/20/16 09:01	12/23/16 12:05	1
2,6-Dinitrotoluene	5.2	U	5.2	0.24	ug/L		12/20/16 09:01	12/23/16 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*44 - 120*	*12/20/16 09:01*	*12/23/16 12:05*	*1*
2-Fluorophenol (Surr)	*51*		*26 - 120*	*12/20/16 09:01*	*12/23/16 12:05*	*1*
2,4,6-Tribromophenol (Surr)	*40*		*36 - 120*	*12/20/16 09:01*	*12/23/16 12:05*	*1*
Nitrobenzene-d5 (Surr)	*69*		*44 - 120*	*12/20/16 09:01*	*12/23/16 12:05*	*1*
Phenol-d5 (Surr)	*36*		*16 - 120*	*12/20/16 09:01*	*12/23/16 12:05*	*1*
Terphenyl-d14 (Surr)	*68*		*43 - 120*	*12/20/16 09:01*	*12/23/16 12:05*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U H	0.20	0.044	ug/L		12/23/16 09:03	12/27/16 12:11	1
Acenaphthylene	0.20	U H	0.20	0.020	ug/L		12/23/16 09:03	12/27/16 12:11	1
Acetophenone	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 12:11	1
Aniline	5.0	U H	5.0	0.22	ug/L		12/23/16 09:03	12/27/16 12:11	1
Anthracene	0.20	U H	0.20	0.031	ug/L		12/23/16 09:03	12/27/16 12:11	1
Atrazine	2.0	U H	2.0	0.12	ug/L		12/23/16 09:03	12/27/16 12:11	1
Benzaldehyde	2.0	U H	2.0	0.30	ug/L		12/23/16 09:03	12/27/16 12:11	1
Benzo[a]anthracene	0.20	U H	0.20	0.059	ug/L		12/23/16 09:03	12/27/16 12:11	1
Benzo[b]fluoranthene	0.20	U H	0.20	0.059	ug/L		12/23/16 09:03	12/27/16 12:11	1
Benzo[k]fluoranthene	0.20	U H	0.20	0.048	ug/L		12/23/16 09:03	12/27/16 12:11	1
Benzo[g,h,i]perylene	0.20	U H	0.20	0.050	ug/L		12/23/16 09:03	12/27/16 12:11	1
Benzo[a]pyrene	0.20	U H	0.20	0.030	ug/L		12/23/16 09:03	12/27/16 12:11	1
Butyl benzyl phthalate	1.0	U H	1.0	0.22	ug/L		12/23/16 09:03	12/27/16 12:11	1
1,1'-Biphenyl	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 12:11	1
Bis(2-chloroethoxy)methane	1.0	U H	1.0	0.037	ug/L		12/23/16 09:03	12/27/16 12:11	1
Bis(2-chloroethyl)ether	1.0	U H	1.0	0.19	ug/L		12/23/16 09:03	12/27/16 12:11	1

Client Sample ID: 20161214UAW17-40V36N
Date Collected: 12/14/16 11:45
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	2.0	U H	2.0	1.5	ug/L		12/23/16 09:03	12/27/16 12:11	1
4-Bromophenyl phenyl ether	2.0	U H	2.0	0.35	ug/L		12/23/16 09:03	12/27/16 12:11	1
Caprolactam	5.0	U H	5.0	0.37	ug/L		12/23/16 09:03	12/27/16 12:11	1
Carbazole	1.0	U H	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 12:11	1
4-Chloroaniline	2.0	U H	2.0	0.15	ug/L		12/23/16 09:03	12/27/16 12:11	1
4-Chloro-3-methylphenol	2.0	U H	2.0	0.28	ug/L		12/23/16 09:03	12/27/16 12:11	1
2-Chloronaphthalene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 12:11	1
2-Chlorophenol	1.0	U H	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 12:11	1
4-Chlorophenyl phenyl ether	2.0	U H	2.0	0.29	ug/L		12/23/16 09:03	12/27/16 12:11	1
Chrysene	0.20	U H	0.20	0.035	ug/L		12/23/16 09:03	12/27/16 12:11	1
2-Methylnaphthalene	0.20	U H	0.20	0.037	ug/L		12/23/16 09:03	12/27/16 12:11	1
3 & 4 Methylphenol	2.0	U H	2.0	0.34	ug/L		12/23/16 09:03	12/27/16 12:11	1
Dibenz(a,h)anthracene	0.20	U H	0.20	0.040	ug/L		12/23/16 09:03	12/27/16 12:11	1
Dibenzofuran	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 12:11	1
3,3'-Dichlorobenzidine	5.0	U H	5.0	0.35	ug/L		12/23/16 09:03	12/27/16 12:11	1
2,4-Dichlorophenol	2.0	U H	2.0	0.29	ug/L		12/23/16 09:03	12/27/16 12:11	1
Diethyl phthalate	**0.27**	**J H B**	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 12:11	1
2,4-Dimethylphenol	2.0	U H	2.0	0.31	ug/L		12/23/16 09:03	12/27/16 12:11	1
Dimethyl phthalate	1.0	U H	1.0	0.10	ug/L		12/23/16 09:03	12/27/16 12:11	1
4,6-Dinitro-2-methylphenol	5.0	U H	5.0	0.53	ug/L		12/23/16 09:03	12/27/16 12:11	1
2,4-Dinitrophenol	40	U H	40	6.1	ug/L		12/23/16 09:03	12/27/16 12:11	1
2,4-Dinitrotoluene	5.0	U H	5.0	0.26	ug/L		12/23/16 09:03	12/27/16 12:11	1
Di-n-butyl phthalate	**0.64**	**J H B**	1.0	0.40	ug/L		12/23/16 09:03	12/27/16 12:11	1
Di-n-octyl phthalate	1.0	U H	1.0	0.37	ug/L		12/23/16 09:03	12/27/16 12:11	1
Fluoranthene	0.20	U H	0.20	0.027	ug/L		12/23/16 09:03	12/27/16 12:11	1
Fluorene	0.20	U H	0.20	0.034	ug/L		12/23/16 09:03	12/27/16 12:11	1
Hexachlorobenzene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 12:11	1
Hexachlorobutadiene	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 12:11	1
Hexachlorocyclopentadiene	10	U H	10	2.5	ug/L		12/23/16 09:03	12/27/16 12:11	1
Hexachloroethane	1.0	U H	1.0	0.22	ug/L		12/23/16 09:03	12/27/16 12:11	1
Indeno[1,2,3-cd]pyrene	0.20	U H	0.20	0.048	ug/L		12/23/16 09:03	12/27/16 12:11	1
Isophorone	1.0	U H	1.0	0.042	ug/L		12/23/16 09:03	12/27/16 12:11	1
2-Methylphenol	1.0	U H	1.0	0.19	ug/L		12/23/16 09:03	12/27/16 12:11	1
Naphthalene	0.20	U H	0.20	0.043	ug/L		12/23/16 09:03	12/27/16 12:11	1
2-Nitroaniline	2.0	U H	2.0	0.31	ug/L		12/23/16 09:03	12/27/16 12:11	1
3-Nitroaniline	2.0	U H *	2.0	0.27	ug/L		12/23/16 09:03	12/27/16 12:11	1
4-Nitroaniline	2.0	U H	2.0	0.24	ug/L		12/23/16 09:03	12/27/16 12:11	1
Nitrobenzene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 12:11	1
2-Nitrophenol	2.0	U H	2.0	0.21	ug/L		12/23/16 09:03	12/27/16 12:11	1
4-Nitrophenol	5.0	U H	5.0	0.59	ug/L		12/23/16 09:03	12/27/16 12:11	1
N-Nitrosodiphenylamine	1.0	U H	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 12:11	1
N-Nitrosodi-n-propylamine	1.0	U H	1.0	0.16	ug/L		12/23/16 09:03	12/27/16 12:11	1
2,2'-oxybis(1-chloropropane)	1.0	U H	1.0	0.18	ug/L		12/23/16 09:03	12/27/16 12:11	1
Pentachlorophenol	40	U H	40	5.5	ug/L		12/23/16 09:03	12/27/16 12:11	1
Phenanthrene	0.20	U H	0.20	0.031	ug/L		12/23/16 09:03	12/27/16 12:11	1
Phenol	1.0	U H	1.0	0.15	ug/L		12/23/16 09:03	12/27/16 12:11	1
Pyrene	0.20	U H	0.20	0.028	ug/L		12/23/16 09:03	12/27/16 12:11	1
2,4,5-Trichlorophenol	5.0	U H	5.0	0.37	ug/L		12/23/16 09:03	12/27/16 12:11	1
2,4,6-Trichlorophenol	5.0	U H	5.0	0.26	ug/L		12/23/16 09:03	12/27/16 12:11	1

Client Sample ID: 20161214UAW17-40V36N
Date Collected: 12/14/16 11:45
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	5.0	U H	5.0	0.24	ug/L		12/23/16 09:03	12/27/16 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*57*		*44 - 120*	*12/23/16 09:03*	*12/27/16 12:11*	*1*
2-Fluorophenol (Surr)	*35*		*26 - 120*	*12/23/16 09:03*	*12/27/16 12:11*	*1*
2,4,6-Tribromophenol (Surr)	*32*	*X*	*36 - 120*	*12/23/16 09:03*	*12/27/16 12:11*	*1*
Nitrobenzene-d5 (Surr)	*57*		*44 - 120*	*12/23/16 09:03*	*12/27/16 12:11*	*1*
Phenol-d5 (Surr)	*35*		*16 - 120*	*12/23/16 09:03*	*12/27/16 12:11*	*1*
Terphenyl-d14 (Surr)	*74*		*43 - 120*	*12/23/16 09:03*	*12/27/16 12:11*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**52**	**J**	200	40	ug/L		12/16/16 14:00	12/20/16 03:26	1
Antimony	10	U	10	3.1	ug/L		12/16/16 14:00	12/20/16 03:26	1
Barium	**230**		200	2.4	ug/L		12/16/16 14:00	12/20/16 03:26	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/16/16 14:00	12/20/16 03:26	1
Calcium	**93000**		5000	710	ug/L		12/16/16 14:00	12/20/16 03:26	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/16/16 14:00	12/20/16 03:26	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/16/16 14:00	12/20/16 03:26	1
Chromium	5.0	U	5.0	0.55	ug/L		12/16/16 14:00	12/20/16 03:26	1
Copper	25	U	25	3.9	ug/L		12/16/16 14:00	12/20/16 03:26	1
Iron	**6700**		100	25	ug/L		12/16/16 14:00	12/20/16 03:26	1
Potassium	**640**	**J**	5000	70	ug/L		12/16/16 14:00	12/20/16 03:26	1
Magnesium	**28000**		5000	230	ug/L		12/16/16 14:00	12/20/16 03:26	1
Manganese	**150**		15	5.1	ug/L		12/16/16 14:00	12/20/16 03:26	1
Silver	5.0	U	5.0	0.92	ug/L		12/16/16 14:00	12/20/16 03:26	1
Sodium	**7900**	**B**	5000	330	ug/L		12/16/16 14:00	12/20/16 03:26	1
Nickel	40	U	40	1.6	ug/L		12/16/16 14:00	12/20/16 03:26	1
Vanadium	10	U	10	4.4	ug/L		12/16/16 14:00	12/20/16 03:26	1
Zinc	50	U	50	16	ug/L		12/16/16 14:00	12/20/16 03:26	1
Arsenic	**32**		10	3.3	ug/L		12/16/16 14:00	12/20/16 03:26	1
Lead	5.0	U	5.0	1.9	ug/L		12/16/16 14:00	12/20/16 03:26	1
Selenium	15	U	15	5.1	ug/L		12/16/16 14:00	12/20/16 03:26	1
Thallium	10	U	10	2.1	ug/L		12/16/16 14:00	12/20/16 03:26	1
Tin	100	U	100	1.8	ug/L		12/16/16 14:00	12/20/16 03:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/16/16 14:00	12/17/16 12:13	1

Client Sample ID: 20161214UAW20-60V56N
Date Collected: 12/14/16 14:15
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/21/16 21:12	1
Benzene	1.0	U	1.0	0.28	ug/L			12/21/16 21:12	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/21/16 21:12	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/21/16 21:12	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/21/16 21:12	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/21/16 21:12	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/21/16 21:12	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/21/16 21:12	1
Chlorobenzene	**0.70**	**J**	1.0	0.32	ug/L			12/21/16 21:12	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/21/16 21:12	1
Chloroform	**0.79**	**J**	1.0	0.31	ug/L			12/21/16 21:12	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/21/16 21:12	1
cis-1,2-Dichloroethene	**13**		1.0	0.30	ug/L			12/21/16 21:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/21/16 21:12	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/21/16 21:12	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/21/16 21:12	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/21/16 21:12	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/21/16 21:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/21/16 21:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 21:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/21/16 21:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 21:12	1
1,1-Dichloroethane	**4.4**		1.0	0.25	ug/L			12/21/16 21:12	1
1,2-Dichloroethane	**5.0**		1.0	0.30	ug/L			12/21/16 21:12	1
1,1-Dichloroethene	**1.7**		1.0	0.27	ug/L			12/21/16 21:12	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/21/16 21:12	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/16 21:12	1
2-Hexanone	10	U	10	1.2	ug/L			12/21/16 21:12	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/21/16 21:12	1
Methyl acetate	10	U	10	1.4	ug/L			12/21/16 21:12	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/21/16 21:12	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/21/16 21:12	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/21/16 21:12	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/21/16 21:12	1
Styrene	1.0	U	1.0	0.23	ug/L			12/21/16 21:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/21/16 21:12	1
Tetrachloroethene	**77**		2.5	0.75	ug/L			12/21/16 17:03	2.5
Toluene	1.0	U	1.0	0.23	ug/L			12/21/16 21:12	1
trans-1,2-Dichloroethene	**0.82**	**J**	1.0	0.29	ug/L			12/21/16 21:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/21/16 21:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/21/16 21:12	1
1,1,1-Trichloroethane	**7.2**		1.0	0.23	ug/L			12/21/16 21:12	1
1,1,2-Trichloroethane	**1.7**		1.0	0.34	ug/L			12/21/16 21:12	1
Trichloroethene	**5.2**		1.0	0.33	ug/L			12/21/16 21:12	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 21:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**3.8**		1.0	0.41	ug/L			12/21/16 21:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/21/16 21:12	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/21/16 21:12	1

Client Sample ID: 20161214UAW20-60V56N
Date Collected: 12/14/16 14:15
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*12/21/16 17:03*	*2.5*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*12/21/16 21:12*	*1*
Dibromofluoromethane (Surr)	*83*		*80 - 120*		*12/21/16 17:03*	*2.5*
Dibromofluoromethane (Surr)	*83*		*80 - 120*		*12/21/16 21:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*63 - 132*		*12/21/16 17:03*	*2.5*
1,2-Dichloroethane-d4 (Surr)	*81*		*63 - 132*		*12/21/16 21:12*	*1*
Toluene-d8 (Surr)	*79*		*73 - 124*		*12/21/16 17:03*	*2.5*
Toluene-d8 (Surr)	*79*		*73 - 124*		*12/21/16 21:12*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.23	U	0.23	0.050	ug/L		12/20/16 09:01	12/23/16 12:54	1
Acenaphthylene	0.23	U	0.23	0.023	ug/L		12/20/16 09:01	12/23/16 12:54	1
Acetophenone	1.1	U	1.1	0.16	ug/L		12/20/16 09:01	12/23/16 12:54	1
Aniline	5.7	U	5.7	0.25	ug/L		12/20/16 09:01	12/23/16 12:54	1
Anthracene	0.23	U	0.23	0.035	ug/L		12/20/16 09:01	12/23/16 12:54	1
Atrazine	2.3	U	2.3	0.13	ug/L		12/20/16 09:01	12/23/16 12:54	1
Benzaldehyde	2.3	U	2.3	0.34	ug/L		12/20/16 09:01	12/23/16 12:54	1
Benzo[a]anthracene	0.23	U	0.23	0.067	ug/L		12/20/16 09:01	12/23/16 12:54	1
Benzo[b]fluoranthene	0.23	U	0.23	0.067	ug/L		12/20/16 09:01	12/23/16 12:54	1
Benzo[k]fluoranthene	0.23	U	0.23	0.055	ug/L		12/20/16 09:01	12/23/16 12:54	1
Benzo[g,h,i]perylene	0.23	U	0.23	0.057	ug/L		12/20/16 09:01	12/23/16 12:54	1
Benzo[a]pyrene	0.23	U	0.23	0.034	ug/L		12/20/16 09:01	12/23/16 12:54	1
Butyl benzyl phthalate	1.1	U *	1.1	0.25	ug/L		12/20/16 09:01	12/23/16 12:54	1
1,1'-Biphenyl	1.1	U	1.1	0.14	ug/L		12/20/16 09:01	12/23/16 12:54	1
Bis(2-chloroethoxy)methane	1.1	U	1.1	0.042	ug/L		12/20/16 09:01	12/23/16 12:54	1
Bis(2-chloroethyl)ether	1.1	U	1.1	0.22	ug/L		12/20/16 09:01	12/23/16 12:54	1
Bis(2-ethylhexyl) phthalate	2.3	U	2.3	1.7	ug/L		12/20/16 09:01	12/23/16 12:54	1
4-Bromophenyl phenyl ether	2.3	U	2.3	0.39	ug/L		12/20/16 09:01	12/23/16 12:54	1
Caprolactam	5.7	U	5.7	0.42	ug/L		12/20/16 09:01	12/23/16 12:54	1
Carbazole	1.1	U	1.1	0.12	ug/L		12/20/16 09:01	12/23/16 12:54	1
4-Chloroaniline	2.3	U	2.3	0.17	ug/L		12/20/16 09:01	12/23/16 12:54	1
4-Chloro-3-methylphenol	2.3	U	2.3	0.32	ug/L		12/20/16 09:01	12/23/16 12:54	1
2-Chloronaphthalene	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/23/16 12:54	1
2-Chlorophenol	1.1	U	1.1	0.15	ug/L		12/20/16 09:01	12/23/16 12:54	1
4-Chlorophenyl phenyl ether	2.3	U	2.3	0.33	ug/L		12/20/16 09:01	12/23/16 12:54	1
Chrysene	0.23	U	0.23	0.040	ug/L		12/20/16 09:01	12/23/16 12:54	1
2-Methylnaphthalene	0.23	U	0.23	0.042	ug/L		12/20/16 09:01	12/23/16 12:54	1
3 & 4 Methylphenol	2.3	U	2.3	0.38	ug/L		12/20/16 09:01	12/23/16 12:54	1
Dibenz(a,h)anthracene	0.23	U	0.23	0.045	ug/L		12/20/16 09:01	12/23/16 12:54	1
Dibenzofuran	1.1	U	1.1	0.16	ug/L		12/20/16 09:01	12/23/16 12:54	1
3,3'-Dichlorobenzidine	5.7	U	5.7	0.40	ug/L		12/20/16 09:01	12/23/16 12:54	1
2,4-Dichlorophenol	2.3	U	2.3	0.33	ug/L		12/20/16 09:01	12/23/16 12:54	1
Diethyl phthalate	1.1	U *	1.1	0.14	ug/L		12/20/16 09:01	12/23/16 12:54	1
2,4-Dimethylphenol	2.3	U	2.3	0.36	ug/L		12/20/16 09:01	12/23/16 12:54	1
Dimethyl phthalate	1.1	U *	1.1	0.11	ug/L		12/20/16 09:01	12/23/16 12:54	1
4,6-Dinitro-2-methylphenol	5.7	U	5.7	0.60	ug/L		12/20/16 09:01	12/23/16 12:54	1
2,4-Dinitrophenol	45	U	45	7.0	ug/L		12/20/16 09:01	12/23/16 12:54	1
2,4-Dinitrotoluene	5.7	U	5.7	0.29	ug/L		12/20/16 09:01	12/23/16 12:54	1
Di-n-butyl phthalate	1.1	U	1.1	0.45	ug/L		12/20/16 09:01	12/23/16 12:54	1

Client Sample ID: 20161214UAW20-60V56N
Date Collected: 12/14/16 14:15
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	1.1	U	1.1	0.41	ug/L		12/20/16 09:01	12/23/16 12:54	1
Fluoranthene	0.23	U	0.23	0.031	ug/L		12/20/16 09:01	12/23/16 12:54	1
Fluorene	0.23	U	0.23	0.039	ug/L		12/20/16 09:01	12/23/16 12:54	1
Hexachlorobenzene	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/23/16 12:54	1
Hexachlorobutadiene	1.1	U	1.1	0.16	ug/L		12/20/16 09:01	12/23/16 12:54	1
Hexachlorocyclopentadiene	11	U	11	2.8	ug/L		12/20/16 09:01	12/23/16 12:54	1
Hexachloroethane	1.1	U	1.1	0.25	ug/L		12/20/16 09:01	12/23/16 12:54	1
Indeno[1,2,3-cd]pyrene	0.23	U	0.23	0.055	ug/L		12/20/16 09:01	12/23/16 12:54	1
Isophorone	1.1	U	1.1	0.048	ug/L		12/20/16 09:01	12/23/16 12:54	1
2-Methylphenol	1.1	U	1.1	0.21	ug/L		12/20/16 09:01	12/23/16 12:54	1
Naphthalene	0.23	U	0.23	0.049	ug/L		12/20/16 09:01	12/23/16 12:54	1
2-Nitroaniline	2.3	U	2.3	0.35	ug/L		12/20/16 09:01	12/23/16 12:54	1
3-Nitroaniline	2.3	U	2.3	0.30	ug/L		12/20/16 09:01	12/23/16 12:54	1
4-Nitroaniline	2.3	U	2.3	0.27	ug/L		12/20/16 09:01	12/23/16 12:54	1
Nitrobenzene	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/23/16 12:54	1
2-Nitrophenol	2.3	U	2.3	0.24	ug/L		12/20/16 09:01	12/23/16 12:54	1
4-Nitrophenol	5.7	U	5.7	0.67	ug/L		12/20/16 09:01	12/23/16 12:54	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/23/16 12:54	1
N-Nitrosodi-n-propylamine	1.1	U	1.1	0.18	ug/L		12/20/16 09:01	12/23/16 12:54	1
2,2'-oxybis(1-chloropropane)	1.1	U	1.1	0.21	ug/L		12/20/16 09:01	12/23/16 12:54	1
Pentachlorophenol	45	U	45	6.2	ug/L		12/20/16 09:01	12/23/16 12:54	1
Phenanthrene	0.23	U	0.23	0.035	ug/L		12/20/16 09:01	12/23/16 12:54	1
Phenol	1.1	U	1.1	0.17	ug/L		12/20/16 09:01	12/23/16 12:54	1
Pyrene	0.23	U	0.23	0.032	ug/L		12/20/16 09:01	12/23/16 12:54	1
2,4,5-Trichlorophenol	5.7	U	5.7	0.42	ug/L		12/20/16 09:01	12/23/16 12:54	1
2,4,6-Trichlorophenol	5.7	U	5.7	0.30	ug/L		12/20/16 09:01	12/23/16 12:54	1
2,6-Dinitrotoluene	5.7	U	5.7	0.27	ug/L		12/20/16 09:01	12/23/16 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*54*		*44 - 120*	*12/20/16 09:01*	*12/23/16 12:54*	*1*
2-Fluorophenol (Surr)	*61*		*26 - 120*	*12/20/16 09:01*	*12/23/16 12:54*	*1*
2,4,6-Tribromophenol (Surr)	*44*		*36 - 120*	*12/20/16 09:01*	*12/23/16 12:54*	*1*
Nitrobenzene-d5 (Surr)	*60*		*44 - 120*	*12/20/16 09:01*	*12/23/16 12:54*	*1*
Phenol-d5 (Surr)	*45*		*16 - 120*	*12/20/16 09:01*	*12/23/16 12:54*	*1*
Terphenyl-d14 (Surr)	*70*		*43 - 120*	*12/20/16 09:01*	*12/23/16 12:54*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.22	U H	0.22	0.048	ug/L		12/23/16 09:03	12/28/16 09:41	1
Acenaphthylene	0.22	U H	0.22	0.022	ug/L		12/23/16 09:03	12/28/16 09:41	1
Acetophenone	1.1	U H	1.1	0.15	ug/L		12/23/16 09:03	12/28/16 09:41	1
Aniline	5.4	U H	5.4	0.24	ug/L		12/23/16 09:03	12/28/16 09:41	1
Anthracene	0.22	U H	0.22	0.034	ug/L		12/23/16 09:03	12/28/16 09:41	1
Atrazine	2.2	U H	2.2	0.13	ug/L		12/23/16 09:03	12/28/16 09:41	1
Benzaldehyde	2.2	U H	2.2	0.32	ug/L		12/23/16 09:03	12/28/16 09:41	1
Benzo[a]anthracene	0.22	U H	0.22	0.064	ug/L		12/23/16 09:03	12/28/16 09:41	1
Benzo[b]fluoranthene	0.22	U H	0.22	0.064	ug/L		12/23/16 09:03	12/28/16 09:41	1
Benzo[k]fluoranthene	0.22	U H	0.22	0.052	ug/L		12/23/16 09:03	12/28/16 09:41	1
Benzo[g,h,i]perylene	0.22	U H	0.22	0.054	ug/L		12/23/16 09:03	12/28/16 09:41	1
Benzo[a]pyrene	0.22	U H	0.22	0.033	ug/L		12/23/16 09:03	12/28/16 09:41	1

Client Sample ID: 20161214UAW20-60V56N
Date Collected: 12/14/16 14:15
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	1.1	U H	1.1	0.23	ug/L		12/23/16 09:03	12/28/16 09:41	1
1,1'-Biphenyl	1.1	U H	1.1	0.13	ug/L		12/23/16 09:03	12/28/16 09:41	1
Bis(2-chloroethoxy)methane	1.1	U H	1.1	0.040	ug/L		12/23/16 09:03	12/28/16 09:41	1
Bis(2-chloroethyl)ether	1.1	U H	1.1	0.21	ug/L		12/23/16 09:03	12/28/16 09:41	1
Bis(2-ethylhexyl) phthalate	2.2	U H	2.2	1.7	ug/L		12/23/16 09:03	12/28/16 09:41	1
4-Bromophenyl phenyl ether	2.2	U H	2.2	0.38	ug/L		12/23/16 09:03	12/28/16 09:41	1
Caprolactam	5.4	U H	5.4	0.40	ug/L		12/23/16 09:03	12/28/16 09:41	1
Carbazole	1.1	U H	1.1	0.11	ug/L		12/23/16 09:03	12/28/16 09:41	1
4-Chloroaniline	2.2	U H	2.2	0.16	ug/L		12/23/16 09:03	12/28/16 09:41	1
4-Chloro-3-methylphenol	2.2	U H	2.2	0.30	ug/L		12/23/16 09:03	12/28/16 09:41	1
2-Chloronaphthalene	1.1	U H	1.1	0.13	ug/L		12/23/16 09:03	12/28/16 09:41	1
2-Chlorophenol	1.1	U H	1.1	0.14	ug/L		12/23/16 09:03	12/28/16 09:41	1
4-Chlorophenyl phenyl ether	2.2	U H	2.2	0.32	ug/L		12/23/16 09:03	12/28/16 09:41	1
Chrysene	0.22	U H	0.22	0.038	ug/L		12/23/16 09:03	12/28/16 09:41	1
2-Methylnaphthalene	0.22	U H	0.22	0.040	ug/L		12/23/16 09:03	12/28/16 09:41	1
3 & 4 Methylphenol	2.2	U H	2.2	0.37	ug/L		12/23/16 09:03	12/28/16 09:41	1
Dibenz(a,h)anthracene	0.22	U H	0.22	0.043	ug/L		12/23/16 09:03	12/28/16 09:41	1
Dibenzofuran	1.1	U H	1.1	0.15	ug/L		12/23/16 09:03	12/28/16 09:41	1
3,3'-Dichlorobenzidine	5.4	U H	5.4	0.38	ug/L		12/23/16 09:03	12/28/16 09:41	1
2,4-Dichlorophenol	2.2	U H	2.2	0.32	ug/L		12/23/16 09:03	12/28/16 09:41	1
Diethyl phthalate	1.1	U H	1.1	0.14	ug/L		12/23/16 09:03	12/28/16 09:41	1
2,4-Dimethylphenol	2.2	U H	2.2	0.34	ug/L		12/23/16 09:03	12/28/16 09:41	1
Dimethyl phthalate	1.1	U H	1.1	0.11	ug/L		12/23/16 09:03	12/28/16 09:41	1
4,6-Dinitro-2-methylphenol	5.4	U H	5.4	0.57	ug/L		12/23/16 09:03	12/28/16 09:41	1
2,4-Dinitrophenol	43	U H	43	6.7	ug/L		12/23/16 09:03	12/28/16 09:41	1
2,4-Dinitrotoluene	5.4	U H	5.4	0.28	ug/L		12/23/16 09:03	12/28/16 09:41	1
Di-n-butyl phthalate	**0.56**	**J H B**	1.1	0.43	ug/L		12/23/16 09:03	12/28/16 09:41	1
Di-n-octyl phthalate	1.1	U H	1.1	0.40	ug/L		12/23/16 09:03	12/28/16 09:41	1
Fluoranthene	0.22	U H	0.22	0.029	ug/L		12/23/16 09:03	12/28/16 09:41	1
Fluorene	0.22	U H	0.22	0.037	ug/L		12/23/16 09:03	12/28/16 09:41	1
Hexachlorobenzene	1.1	U H	1.1	0.13	ug/L		12/23/16 09:03	12/28/16 09:41	1
Hexachlorobutadiene	1.1	U H	1.1	0.15	ug/L		12/23/16 09:03	12/28/16 09:41	1
Hexachlorocyclopentadiene	11	U H	11	2.7	ug/L		12/23/16 09:03	12/28/16 09:41	1
Hexachloroethane	1.1	U H	1.1	0.24	ug/L		12/23/16 09:03	12/28/16 09:41	1
Indeno[1,2,3-cd]pyrene	0.22	U H	0.22	0.052	ug/L		12/23/16 09:03	12/28/16 09:41	1
Isophorone	1.1	U H	1.1	0.046	ug/L		12/23/16 09:03	12/28/16 09:41	1
2-Methylphenol	1.1	U H	1.1	0.20	ug/L		12/23/16 09:03	12/28/16 09:41	1
Naphthalene	0.22	U H	0.22	0.047	ug/L		12/23/16 09:03	12/28/16 09:41	1
2-Nitroaniline	2.2	U H	2.2	0.33	ug/L		12/23/16 09:03	12/28/16 09:41	1
3-Nitroaniline	2.2	U H *	2.2	0.29	ug/L		12/23/16 09:03	12/28/16 09:41	1
4-Nitroaniline	2.2	U H	2.2	0.26	ug/L		12/23/16 09:03	12/28/16 09:41	1
Nitrobenzene	1.1	U H	1.1	0.13	ug/L		12/23/16 09:03	12/28/16 09:41	1
2-Nitrophenol	2.2	U H	2.2	0.23	ug/L		12/23/16 09:03	12/28/16 09:41	1
4-Nitrophenol	5.4	U H	5.4	0.64	ug/L		12/23/16 09:03	12/28/16 09:41	1
N-Nitrosodiphenylamine	1.1	U H	1.1	0.12	ug/L		12/23/16 09:03	12/28/16 09:41	1
N-Nitrosodi-n-propylamine	1.1	U H	1.1	0.17	ug/L		12/23/16 09:03	12/28/16 09:41	1
2,2'-oxybis(1-chloropropane)	1.1	U H	1.1	0.20	ug/L		12/23/16 09:03	12/28/16 09:41	1
Pentachlorophenol	43	U H	43	5.9	ug/L		12/23/16 09:03	12/28/16 09:41	1
Phenanthrene	0.22	U H	0.22	0.034	ug/L		12/23/16 09:03	12/28/16 09:41	1

Client Sample ID: 20161214UAW20-60V56N
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Lab Sample ID: 240-73378-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	1.1	U H	1.1	0.16	ug/L		12/23/16 09:03	12/28/16 09:41	1
Pyrene	0.22	U H	0.22	0.030	ug/L		12/23/16 09:03	12/28/16 09:41	1
2,4,5-Trichlorophenol	5.4	U H	5.4	0.40	ug/L		12/23/16 09:03	12/28/16 09:41	1
2,4,6-Trichlorophenol	5.4	U H	5.4	0.28	ug/L		12/23/16 09:03	12/28/16 09:41	1
2,6-Dinitrotoluene	5.4	U H	5.4	0.26	ug/L		12/23/16 09:03	12/28/16 09:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*55*		*44 - 120*	*12/23/16 09:03*	*12/28/16 09:41*	*1*
2-Fluorophenol (Surr)	*61*		*26 - 120*	*12/23/16 09:03*	*12/28/16 09:41*	*1*
2,4,6-Tribromophenol (Surr)	*47*		*36 - 120*	*12/23/16 09:03*	*12/28/16 09:41*	*1*
Nitrobenzene-d5 (Surr)	*49*		*44 - 120*	*12/23/16 09:03*	*12/28/16 09:41*	*1*
Phenol-d5 (Surr)	*52*		*16 - 120*	*12/23/16 09:03*	*12/28/16 09:41*	*1*
Terphenyl-d14 (Surr)	*65*		*43 - 120*	*12/23/16 09:03*	*12/28/16 09:41*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/16/16 14:00	12/20/16 03:30	1
Antimony	10	U	10	3.1	ug/L		12/16/16 14:00	12/20/16 03:30	1
Barium	**17**	**J**	200	2.4	ug/L		12/16/16 14:00	12/20/16 03:30	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/16/16 14:00	12/20/16 03:30	1
Calcium	**220000**		5000	710	ug/L		12/16/16 14:00	12/20/16 03:30	1
Cadmium	**0.49**	**J**	2.0	0.29	ug/L		12/16/16 14:00	12/20/16 03:30	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/16/16 14:00	12/20/16 03:30	1
Chromium	5.0	U	5.0	0.55	ug/L		12/16/16 14:00	12/20/16 03:30	1
Copper	25	U	25	3.9	ug/L		12/16/16 14:00	12/20/16 03:30	1
Iron	**33**	**J**	100	25	ug/L		12/16/16 14:00	12/20/16 03:30	1
Potassium	**2000**	**J**	5000	70	ug/L		12/16/16 14:00	12/20/16 03:30	1
Magnesium	**74000**		5000	230	ug/L		12/16/16 14:00	12/20/16 03:30	1
Manganese	**61**		15	5.1	ug/L		12/16/16 14:00	12/20/16 03:30	1
Silver	5.0	U	5.0	0.92	ug/L		12/16/16 14:00	12/20/16 03:30	1
Sodium	**63000**	**B**	5000	330	ug/L		12/16/16 14:00	12/20/16 03:30	1
Nickel	**1.8**	**J**	40	1.6	ug/L		12/16/16 14:00	12/20/16 03:30	1
Vanadium	10	U	10	4.4	ug/L		12/16/16 14:00	12/20/16 03:30	1
Zinc	50	U	50	16	ug/L		12/16/16 14:00	12/20/16 03:30	1
Arsenic	10	U	10	3.3	ug/L		12/16/16 14:00	12/20/16 03:30	1
Lead	5.0	U	5.0	1.9	ug/L		12/16/16 14:00	12/20/16 03:30	1
Selenium	15	U	15	5.1	ug/L		12/16/16 14:00	12/20/16 03:30	1
Thallium	**2.6**	**J**	10	2.1	ug/L		12/16/16 14:00	12/20/16 03:30	1
Tin	**2.2**	**J**	100	1.8	ug/L		12/16/16 14:00	12/20/16 03:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/16/16 14:00	12/17/16 12:15	1

Client Sample ID: 20161214UAW20-60V56FD
Date Collected: 12/14/16 14:15
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Lab Sample ID: 240-73378-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/21/16 21:35	1
Benzene	1.0	U	1.0	0.28	ug/L			12/21/16 21:35	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/21/16 21:35	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/21/16 21:35	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/21/16 21:35	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/21/16 21:35	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/21/16 21:35	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/21/16 21:35	1
Chlorobenzene	**0.57**	**J**	1.0	0.32	ug/L			12/21/16 21:35	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/21/16 21:35	1
Chloroform	**0.80**	**J**	1.0	0.31	ug/L			12/21/16 21:35	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/21/16 21:35	1
cis-1,2-Dichloroethene	**14**		1.0	0.30	ug/L			12/21/16 21:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/21/16 21:35	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/21/16 21:35	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/21/16 21:35	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/21/16 21:35	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/21/16 21:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/21/16 21:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 21:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/21/16 21:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 21:35	1
1,1-Dichloroethane	**4.7**		1.0	0.25	ug/L			12/21/16 21:35	1
1,2-Dichloroethane	**5.2**		1.0	0.30	ug/L			12/21/16 21:35	1
1,1-Dichloroethene	**2.1**		1.0	0.27	ug/L			12/21/16 21:35	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/21/16 21:35	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/16 21:35	1
2-Hexanone	10	U	10	1.2	ug/L			12/21/16 21:35	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/21/16 21:35	1
Methyl acetate	10	U	10	1.4	ug/L			12/21/16 21:35	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/21/16 21:35	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/21/16 21:35	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/21/16 21:35	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/21/16 21:35	1
Styrene	1.0	U	1.0	0.23	ug/L			12/21/16 21:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/21/16 21:35	1
Tetrachloroethene	**81**		2.5	0.75	ug/L			12/21/16 17:26	2.5
Toluene	1.0	U	1.0	0.23	ug/L			12/21/16 21:35	1
trans-1,2-Dichloroethene	**0.92**	**J**	1.0	0.29	ug/L			12/21/16 21:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/21/16 21:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/21/16 21:35	1
1,1,1-Trichloroethane	**7.7**		1.0	0.23	ug/L			12/21/16 21:35	1
1,1,2-Trichloroethane	**1.8**		1.0	0.34	ug/L			12/21/16 21:35	1
Trichloroethene	**5.8**		1.0	0.33	ug/L			12/21/16 21:35	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 21:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**4.6**		1.0	0.41	ug/L			12/21/16 21:35	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/21/16 21:35	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/21/16 21:35	1

Client Sample ID: 20161214UAW20-60V56FD
Date Collected: 12/14/16 14:15
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Lab Sample ID: 240-73378-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*12/21/16 17:26*	*2.5*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*12/21/16 21:35*	*1*
Dibromofluoromethane (Surr)	*87*		*80 - 120*		*12/21/16 17:26*	*2.5*
Dibromofluoromethane (Surr)	*85*		*80 - 120*		*12/21/16 21:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 132*		*12/21/16 17:26*	*2.5*
1,2-Dichloroethane-d4 (Surr)	*85*		*63 - 132*		*12/21/16 21:35*	*1*
Toluene-d8 (Surr)	*82*		*73 - 124*		*12/21/16 17:26*	*2.5*
Toluene-d8 (Surr)	*80*		*73 - 124*		*12/21/16 21:35*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.22	U	0.22	0.048	ug/L		12/20/16 09:01	12/23/16 13:18	1
Acenaphthylene	0.22	U	0.22	0.022	ug/L		12/20/16 09:01	12/23/16 13:18	1
Acetophenone	1.1	U	1.1	0.15	ug/L		12/20/16 09:01	12/23/16 13:18	1
Aniline	5.4	U	5.4	0.24	ug/L		12/20/16 09:01	12/23/16 13:18	1
Anthracene	0.22	U	0.22	0.034	ug/L		12/20/16 09:01	12/23/16 13:18	1
Atrazine	2.2	U	2.2	0.13	ug/L		12/20/16 09:01	12/23/16 13:18	1
Benzaldehyde	2.2	U	2.2	0.32	ug/L		12/20/16 09:01	12/23/16 13:18	1
Benzo[a]anthracene	0.22	U	0.22	0.064	ug/L		12/20/16 09:01	12/23/16 13:18	1
Benzo[b]fluoranthene	0.22	U	0.22	0.064	ug/L		12/20/16 09:01	12/23/16 13:18	1
Benzo[k]fluoranthene	0.22	U	0.22	0.052	ug/L		12/20/16 09:01	12/23/16 13:18	1
Benzo[g,h,i]perylene	0.22	U	0.22	0.054	ug/L		12/20/16 09:01	12/23/16 13:18	1
Benzo[a]pyrene	0.22	U	0.22	0.033	ug/L		12/20/16 09:01	12/23/16 13:18	1
Butyl benzyl phthalate	1.1	U *	1.1	0.23	ug/L		12/20/16 09:01	12/23/16 13:18	1
1,1'-Biphenyl	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/23/16 13:18	1
Bis(2-chloroethoxy)methane	1.1	U	1.1	0.040	ug/L		12/20/16 09:01	12/23/16 13:18	1
Bis(2-chloroethyl)ether	1.1	U	1.1	0.21	ug/L		12/20/16 09:01	12/23/16 13:18	1
Bis(2-ethylhexyl) phthalate	2.2	U	2.2	1.7	ug/L		12/20/16 09:01	12/23/16 13:18	1
4-Bromophenyl phenyl ether	2.2	U	2.2	0.38	ug/L		12/20/16 09:01	12/23/16 13:18	1
Caprolactam	5.4	U	5.4	0.40	ug/L		12/20/16 09:01	12/23/16 13:18	1
Carbazole	1.1	U	1.1	0.11	ug/L		12/20/16 09:01	12/23/16 13:18	1
4-Chloroaniline	2.2	U	2.2	0.16	ug/L		12/20/16 09:01	12/23/16 13:18	1
4-Chloro-3-methylphenol	2.2	U	2.2	0.30	ug/L		12/20/16 09:01	12/23/16 13:18	1
2-Chloronaphthalene	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/23/16 13:18	1
2-Chlorophenol	1.1	U	1.1	0.14	ug/L		12/20/16 09:01	12/23/16 13:18	1
4-Chlorophenyl phenyl ether	2.2	U	2.2	0.32	ug/L		12/20/16 09:01	12/23/16 13:18	1
Chrysene	0.22	U	0.22	0.038	ug/L		12/20/16 09:01	12/23/16 13:18	1
2-Methylnaphthalene	0.22	U	0.22	0.040	ug/L		12/20/16 09:01	12/23/16 13:18	1
3 & 4 Methylphenol	2.2	U	2.2	0.37	ug/L		12/20/16 09:01	12/23/16 13:18	1
Dibenz(a,h)anthracene	0.22	U	0.22	0.043	ug/L		12/20/16 09:01	12/23/16 13:18	1
Dibenzofuran	1.1	U	1.1	0.15	ug/L		12/20/16 09:01	12/23/16 13:18	1
3,3'-Dichlorobenzidine	5.4	U	5.4	0.38	ug/L		12/20/16 09:01	12/23/16 13:18	1
2,4-Dichlorophenol	2.2	U	2.2	0.32	ug/L		12/20/16 09:01	12/23/16 13:18	1
Diethyl phthalate	1.1	U *	1.1	0.14	ug/L		12/20/16 09:01	12/23/16 13:18	1
2,4-Dimethylphenol	2.2	U	2.2	0.34	ug/L		12/20/16 09:01	12/23/16 13:18	1
Dimethyl phthalate	1.1	U *	1.1	0.11	ug/L		12/20/16 09:01	12/23/16 13:18	1
4,6-Dinitro-2-methylphenol	5.4	U	5.4	0.57	ug/L		12/20/16 09:01	12/23/16 13:18	1
2,4-Dinitrophenol	43	U	43	6.7	ug/L		12/20/16 09:01	12/23/16 13:18	1
2,4-Dinitrotoluene	5.4	U	5.4	0.28	ug/L		12/20/16 09:01	12/23/16 13:18	1
Di-n-butyl phthalate	1.1	U	1.1	0.43	ug/L		12/20/16 09:01	12/23/16 13:18	1

Client Sample ID: 20161214UAW20-60V56FD
Date Collected: 12/14/16 14:15
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	1.1	U	1.1	0.40	ug/L		12/20/16 09:01	12/23/16 13:18	1
Fluoranthene	0.22	U	0.22	0.029	ug/L		12/20/16 09:01	12/23/16 13:18	1
Fluorene	0.22	U	0.22	0.037	ug/L		12/20/16 09:01	12/23/16 13:18	1
Hexachlorobenzene	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/23/16 13:18	1
Hexachlorobutadiene	1.1	U	1.1	0.15	ug/L		12/20/16 09:01	12/23/16 13:18	1
Hexachlorocyclopentadiene	11	U	11	2.7	ug/L		12/20/16 09:01	12/23/16 13:18	1
Hexachloroethane	1.1	U	1.1	0.24	ug/L		12/20/16 09:01	12/23/16 13:18	1
Indeno[1,2,3-cd]pyrene	0.22	U	0.22	0.052	ug/L		12/20/16 09:01	12/23/16 13:18	1
Isophorone	1.1	U	1.1	0.046	ug/L		12/20/16 09:01	12/23/16 13:18	1
2-Methylphenol	1.1	U	1.1	0.20	ug/L		12/20/16 09:01	12/23/16 13:18	1
Naphthalene	0.22	U	0.22	0.047	ug/L		12/20/16 09:01	12/23/16 13:18	1
2-Nitroaniline	2.2	U	2.2	0.33	ug/L		12/20/16 09:01	12/23/16 13:18	1
3-Nitroaniline	2.2	U	2.2	0.29	ug/L		12/20/16 09:01	12/23/16 13:18	1
4-Nitroaniline	2.2	U	2.2	0.26	ug/L		12/20/16 09:01	12/23/16 13:18	1
Nitrobenzene	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/23/16 13:18	1
2-Nitrophenol	2.2	U	2.2	0.23	ug/L		12/20/16 09:01	12/23/16 13:18	1
4-Nitrophenol	5.4	U	5.4	0.64	ug/L		12/20/16 09:01	12/23/16 13:18	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.12	ug/L		12/20/16 09:01	12/23/16 13:18	1
N-Nitrosodi-n-propylamine	1.1	U	1.1	0.17	ug/L		12/20/16 09:01	12/23/16 13:18	1
2,2'-oxybis(1-chloropropane)	1.1	U	1.1	0.20	ug/L		12/20/16 09:01	12/23/16 13:18	1
Pentachlorophenol	43	U	43	5.9	ug/L		12/20/16 09:01	12/23/16 13:18	1
Phenanthrene	0.22	U	0.22	0.034	ug/L		12/20/16 09:01	12/23/16 13:18	1
Phenol	1.1	U	1.1	0.16	ug/L		12/20/16 09:01	12/23/16 13:18	1
Pyrene	0.22	U	0.22	0.030	ug/L		12/20/16 09:01	12/23/16 13:18	1
2,4,5-Trichlorophenol	5.4	U	5.4	0.40	ug/L		12/20/16 09:01	12/23/16 13:18	1
2,4,6-Trichlorophenol	5.4	U	5.4	0.28	ug/L		12/20/16 09:01	12/23/16 13:18	1
2,6-Dinitrotoluene	5.4	U	5.4	0.26	ug/L		12/20/16 09:01	12/23/16 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*44 - 120*	*12/20/16 09:01*	*12/23/16 13:18*	*1*
2-Fluorophenol (Surr)	*59*		*26 - 120*	*12/20/16 09:01*	*12/23/16 13:18*	*1*
2,4,6-Tribromophenol (Surr)	*43*		*36 - 120*	*12/20/16 09:01*	*12/23/16 13:18*	*1*
Nitrobenzene-d5 (Surr)	*62*		*44 - 120*	*12/20/16 09:01*	*12/23/16 13:18*	*1*
Phenol-d5 (Surr)	*37*		*16 - 120*	*12/20/16 09:01*	*12/23/16 13:18*	*1*
Terphenyl-d14 (Surr)	*68*		*43 - 120*	*12/20/16 09:01*	*12/23/16 13:18*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U H	0.20	0.044	ug/L		12/23/16 09:03	12/27/16 13:00	1
Acenaphthylene	0.20	U H	0.20	0.020	ug/L		12/23/16 09:03	12/27/16 13:00	1
Acetophenone	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 13:00	1
Aniline	5.0	U H	5.0	0.22	ug/L		12/23/16 09:03	12/27/16 13:00	1
Anthracene	0.20	U H	0.20	0.031	ug/L		12/23/16 09:03	12/27/16 13:00	1
Atrazine	2.0	U H	2.0	0.12	ug/L		12/23/16 09:03	12/27/16 13:00	1
Benzaldehyde	2.0	U H	2.0	0.30	ug/L		12/23/16 09:03	12/27/16 13:00	1
Benzo[a]anthracene	0.20	U H	0.20	0.059	ug/L		12/23/16 09:03	12/27/16 13:00	1
Benzo[b]fluoranthene	0.20	U H	0.20	0.059	ug/L		12/23/16 09:03	12/27/16 13:00	1
Benzo[k]fluoranthene	0.20	U H	0.20	0.048	ug/L		12/23/16 09:03	12/27/16 13:00	1
Benzo[g,h,i]perylene	0.20	U H	0.20	0.050	ug/L		12/23/16 09:03	12/27/16 13:00	1
Benzo[a]pyrene	0.20	U H	0.20	0.030	ug/L		12/23/16 09:03	12/27/16 13:00	1

Client Sample ID: 20161214UAW20-60V56FD
Date Collected: 12/14/16 14:15
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	1.0	U H	1.0	0.22	ug/L		12/23/16 09:03	12/27/16 13:00	1
1,1'-Biphenyl	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 13:00	1
Bis(2-chloroethoxy)methane	1.0	U H	1.0	0.037	ug/L		12/23/16 09:03	12/27/16 13:00	1
Bis(2-chloroethyl)ether	1.0	U H	1.0	0.19	ug/L		12/23/16 09:03	12/27/16 13:00	1
Bis(2-ethylhexyl) phthalate	2.0	U H	2.0	1.5	ug/L		12/23/16 09:03	12/27/16 13:00	1
4-Bromophenyl phenyl ether	2.0	U H	2.0	0.35	ug/L		12/23/16 09:03	12/27/16 13:00	1
Caprolactam	5.0	U H	5.0	0.37	ug/L		12/23/16 09:03	12/27/16 13:00	1
Carbazole	1.0	U H	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 13:00	1
4-Chloroaniline	2.0	U H	2.0	0.15	ug/L		12/23/16 09:03	12/27/16 13:00	1
4-Chloro-3-methylphenol	2.0	U H	2.0	0.28	ug/L		12/23/16 09:03	12/27/16 13:00	1
2-Chloronaphthalene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 13:00	1
2-Chlorophenol	1.0	U H	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 13:00	1
4-Chlorophenyl phenyl ether	2.0	U H	2.0	0.29	ug/L		12/23/16 09:03	12/27/16 13:00	1
Chrysene	0.20	U H	0.20	0.035	ug/L		12/23/16 09:03	12/27/16 13:00	1
2-Methylnaphthalene	0.20	U H	0.20	0.037	ug/L		12/23/16 09:03	12/27/16 13:00	1
3 & 4 Methylphenol	2.0	U H	2.0	0.34	ug/L		12/23/16 09:03	12/27/16 13:00	1
Dibenz(a,h)anthracene	0.20	U H	0.20	0.040	ug/L		12/23/16 09:03	12/27/16 13:00	1
Dibenzofuran	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 13:00	1
3,3'-Dichlorobenzidine	5.0	U H	5.0	0.35	ug/L		12/23/16 09:03	12/27/16 13:00	1
2,4-Dichlorophenol	2.0	U H	2.0	0.29	ug/L		12/23/16 09:03	12/27/16 13:00	1
Diethyl phthalate	1.0	U H	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 13:00	1
2,4-Dimethylphenol	2.0	U H	2.0	0.31	ug/L		12/23/16 09:03	12/27/16 13:00	1
Dimethyl phthalate	1.0	U H	1.0	0.10	ug/L		12/23/16 09:03	12/27/16 13:00	1
4,6-Dinitro-2-methylphenol	5.0	U H	5.0	0.53	ug/L		12/23/16 09:03	12/27/16 13:00	1
2,4-Dinitrophenol	40	U H	40	6.1	ug/L		12/23/16 09:03	12/27/16 13:00	1
2,4-Dinitrotoluene	5.0	U H	5.0	0.26	ug/L		12/23/16 09:03	12/27/16 13:00	1
Di-n-butyl phthalate	**0.40**	**J H B**	1.0	0.40	ug/L		12/23/16 09:03	12/27/16 13:00	1
Di-n-octyl phthalate	1.0	U H	1.0	0.37	ug/L		12/23/16 09:03	12/27/16 13:00	1
Fluoranthene	0.20	U H	0.20	0.027	ug/L		12/23/16 09:03	12/27/16 13:00	1
Fluorene	0.20	U H	0.20	0.034	ug/L		12/23/16 09:03	12/27/16 13:00	1
Hexachlorobenzene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 13:00	1
Hexachlorobutadiene	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 13:00	1
Hexachlorocyclopentadiene	10	U H	10	2.5	ug/L		12/23/16 09:03	12/27/16 13:00	1
Hexachloroethane	1.0	U H	1.0	0.22	ug/L		12/23/16 09:03	12/27/16 13:00	1
Indeno[1,2,3-cd]pyrene	0.20	U H	0.20	0.048	ug/L		12/23/16 09:03	12/27/16 13:00	1
Isophorone	1.0	U H	1.0	0.042	ug/L		12/23/16 09:03	12/27/16 13:00	1
2-Methylphenol	1.0	U H	1.0	0.19	ug/L		12/23/16 09:03	12/27/16 13:00	1
Naphthalene	**0.28**	**H**	0.20	0.043	ug/L		12/23/16 09:03	12/27/16 13:00	1
2-Nitroaniline	2.0	U H	2.0	0.31	ug/L		12/23/16 09:03	12/27/16 13:00	1
3-Nitroaniline	2.0	U H *	2.0	0.27	ug/L		12/23/16 09:03	12/27/16 13:00	1
4-Nitroaniline	2.0	U H	2.0	0.24	ug/L		12/23/16 09:03	12/27/16 13:00	1
Nitrobenzene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 13:00	1
2-Nitrophenol	2.0	U H	2.0	0.21	ug/L		12/23/16 09:03	12/27/16 13:00	1
4-Nitrophenol	5.0	U H	5.0	0.59	ug/L		12/23/16 09:03	12/27/16 13:00	1
N-Nitrosodiphenylamine	1.0	U H	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 13:00	1
N-Nitrosodi-n-propylamine	1.0	U H	1.0	0.16	ug/L		12/23/16 09:03	12/27/16 13:00	1
2,2'-oxybis(1-chloropropane)	1.0	U H	1.0	0.18	ug/L		12/23/16 09:03	12/27/16 13:00	1
Pentachlorophenol	40	U H	40	5.5	ug/L		12/23/16 09:03	12/27/16 13:00	1
Phenanthrene	0.20	U H	0.20	0.031	ug/L		12/23/16 09:03	12/27/16 13:00	1

Client Sample ID: 20161214UAW20-60V56FD
Date Collected: 12/14/16 14:15
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	1.0	U H	1.0	0.15	ug/L		12/23/16 09:03	12/27/16 13:00	1
Pyrene	0.20	U H	0.20	0.028	ug/L		12/23/16 09:03	12/27/16 13:00	1
2,4,5-Trichlorophenol	5.0	U H	5.0	0.37	ug/L		12/23/16 09:03	12/27/16 13:00	1
2,4,6-Trichlorophenol	5.0	U H	5.0	0.26	ug/L		12/23/16 09:03	12/27/16 13:00	1
2,6-Dinitrotoluene	5.0	U H	5.0	0.24	ug/L		12/23/16 09:03	12/27/16 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*51*		*44 - 120*	*12/23/16 09:03*	*12/27/16 13:00*	*1*
2-Fluorophenol (Surr)	*51*		*26 - 120*	*12/23/16 09:03*	*12/27/16 13:00*	*1*
2,4,6-Tribromophenol (Surr)	*45*		*36 - 120*	*12/23/16 09:03*	*12/27/16 13:00*	*1*
Nitrobenzene-d5 (Surr)	*48*		*44 - 120*	*12/23/16 09:03*	*12/27/16 13:00*	*1*
Phenol-d5 (Surr)	*42*		*16 - 120*	*12/23/16 09:03*	*12/27/16 13:00*	*1*
Terphenyl-d14 (Surr)	*66*		*43 - 120*	*12/23/16 09:03*	*12/27/16 13:00*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/16/16 14:00	12/20/16 03:35	1
Antimony	10	U	10	3.1	ug/L		12/16/16 14:00	12/20/16 03:35	1
Barium	**17**	**J**	200	2.4	ug/L		12/16/16 14:00	12/20/16 03:35	1
Beryllium	**0.25**	**J**	5.0	0.21	ug/L		12/16/16 14:00	12/20/16 03:35	1
Calcium	**220000**		5000	710	ug/L		12/16/16 14:00	12/20/16 03:35	1
Cadmium	**0.57**	**J**	2.0	0.29	ug/L		12/16/16 14:00	12/20/16 03:35	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/16/16 14:00	12/20/16 03:35	1
Chromium	**0.74**	**J**	5.0	0.55	ug/L		12/16/16 14:00	12/20/16 03:35	1
Copper	25	U	25	3.9	ug/L		12/16/16 14:00	12/20/16 03:35	1
Iron	**32**	**J**	100	25	ug/L		12/16/16 14:00	12/20/16 03:35	1
Potassium	**2000**	**J**	5000	70	ug/L		12/16/16 14:00	12/20/16 03:35	1
Magnesium	**73000**		5000	230	ug/L		12/16/16 14:00	12/20/16 03:35	1
Manganese	**61**		15	5.1	ug/L		12/16/16 14:00	12/20/16 03:35	1
Silver	5.0	U	5.0	0.92	ug/L		12/16/16 14:00	12/20/16 03:35	1
Sodium	**62000**	**B**	5000	330	ug/L		12/16/16 14:00	12/20/16 03:35	1
Nickel	**1.8**	**J**	40	1.6	ug/L		12/16/16 14:00	12/20/16 03:35	1
Vanadium	10	U	10	4.4	ug/L		12/16/16 14:00	12/20/16 03:35	1
Zinc	50	U	50	16	ug/L		12/16/16 14:00	12/20/16 03:35	1
Arsenic	10	U	10	3.3	ug/L		12/16/16 14:00	12/20/16 03:35	1
Lead	5.0	U	5.0	1.9	ug/L		12/16/16 14:00	12/20/16 03:35	1
Selenium	15	U	15	5.1	ug/L		12/16/16 14:00	12/20/16 03:35	1
Thallium	10	U	10	2.1	ug/L		12/16/16 14:00	12/20/16 03:35	1
Tin	**1.8**	**J**	100	1.8	ug/L		12/16/16 14:00	12/20/16 03:35	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/16/16 14:00	12/17/16 12:17	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Client Sample ID: 20161213UAW23-20V23N
Date Collected: 12/13/16 17:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/21/16 17:49	1
Benzene	1.0	U	1.0	0.28	ug/L			12/21/16 17:49	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/21/16 17:49	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/21/16 17:49	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/21/16 17:49	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/21/16 17:49	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/21/16 17:49	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/21/16 17:49	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 17:49	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/21/16 17:49	1
Chloroform	**4.8**		1.0	0.31	ug/L			12/21/16 17:49	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/21/16 17:49	1
cis-1,2-Dichloroethene	**2.7**		1.0	0.30	ug/L			12/21/16 17:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/21/16 17:49	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/21/16 17:49	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/21/16 17:49	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/21/16 17:49	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/21/16 17:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/21/16 17:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 17:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/21/16 17:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 17:49	1
1,1-Dichloroethane	**5.1**		1.0	0.25	ug/L			12/21/16 17:49	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/21/16 17:49	1
1,1-Dichloroethene	**0.49**	**J**	1.0	0.27	ug/L			12/21/16 17:49	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/21/16 17:49	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/16 17:49	1
2-Hexanone	10	U	10	1.2	ug/L			12/21/16 17:49	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/21/16 17:49	1
Methyl acetate	10	U	10	1.4	ug/L			12/21/16 17:49	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/21/16 17:49	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/21/16 17:49	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/21/16 17:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/21/16 17:49	1
Styrene	1.0	U	1.0	0.23	ug/L			12/21/16 17:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/21/16 17:49	1
Tetrachloroethene	**10**		1.0	0.30	ug/L			12/21/16 17:49	1
Toluene	1.0	U	1.0	0.23	ug/L			12/21/16 17:49	1
trans-1,2-Dichloroethene	**0.57**	**J**	1.0	0.29	ug/L			12/21/16 17:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/21/16 17:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/21/16 17:49	1
1,1,1-Trichloroethane	**7.3**		1.0	0.23	ug/L			12/21/16 17:49	1
1,1,2-Trichloroethane	**0.61**	**J**	1.0	0.34	ug/L			12/21/16 17:49	1
Trichloroethene	**1.7**		1.0	0.33	ug/L			12/21/16 17:49	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 17:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.65**	**J**	1.0	0.41	ug/L			12/21/16 17:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/21/16 17:49	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/21/16 17:49	1

Client Sample ID: 20161213UAW23-20V23N
Date Collected: 12/13/16 17:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*12/21/16 17:49*	*1*
Dibromofluoromethane (Surr)	*86*		*80 - 120*		*12/21/16 17:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*63 - 132*		*12/21/16 17:49*	*1*
Toluene-d8 (Surr)	*80*		*73 - 124*		*12/21/16 17:49*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/20/16 09:01	12/23/16 13:42	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/20/16 09:01	12/23/16 13:42	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 13:42	1
Aniline	5.0	U	5.0	0.22	ug/L		12/20/16 09:01	12/23/16 13:42	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/20/16 09:01	12/23/16 13:42	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/20/16 09:01	12/23/16 13:42	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/20/16 09:01	12/23/16 13:42	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/20/16 09:01	12/23/16 13:42	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/20/16 09:01	12/23/16 13:42	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/20/16 09:01	12/23/16 13:42	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/20/16 09:01	12/23/16 13:42	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/20/16 09:01	12/23/16 13:42	1
Butyl benzyl phthalate	1.0	U *	1.0	0.22	ug/L		12/20/16 09:01	12/23/16 13:42	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 13:42	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/20/16 09:01	12/23/16 13:42	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/23/16 13:42	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/20/16 09:01	12/23/16 13:42	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/20/16 09:01	12/23/16 13:42	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/20/16 09:01	12/23/16 13:42	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 13:42	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/20/16 09:01	12/23/16 13:42	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/20/16 09:01	12/23/16 13:42	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 13:42	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 13:42	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/20/16 09:01	12/23/16 13:42	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/20/16 09:01	12/23/16 13:42	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/20/16 09:01	12/23/16 13:42	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/20/16 09:01	12/23/16 13:42	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/20/16 09:01	12/23/16 13:42	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 13:42	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/20/16 09:01	12/23/16 13:42	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/20/16 09:01	12/23/16 13:42	1
Diethyl phthalate	1.0	U *	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 13:42	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/20/16 09:01	12/23/16 13:42	1
Dimethyl phthalate	1.0	U *	1.0	0.10	ug/L		12/20/16 09:01	12/23/16 13:42	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/20/16 09:01	12/23/16 13:42	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/20/16 09:01	12/23/16 13:42	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/20/16 09:01	12/23/16 13:42	1
Di-n-butyl phthalate	1.0	U	1.0	0.40	ug/L		12/20/16 09:01	12/23/16 13:42	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/20/16 09:01	12/23/16 13:42	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/20/16 09:01	12/23/16 13:42	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/20/16 09:01	12/23/16 13:42	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 13:42	1

Client Sample ID: 20161213UAW23-20V23N
Date Collected: 12/13/16 17:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-7
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 13:42	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/20/16 09:01	12/23/16 13:42	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/20/16 09:01	12/23/16 13:42	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/20/16 09:01	12/23/16 13:42	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/20/16 09:01	12/23/16 13:42	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/23/16 13:42	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/20/16 09:01	12/23/16 13:42	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/20/16 09:01	12/23/16 13:42	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/20/16 09:01	12/23/16 13:42	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/20/16 09:01	12/23/16 13:42	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 13:42	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/20/16 09:01	12/23/16 13:42	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/20/16 09:01	12/23/16 13:42	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 13:42	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/20/16 09:01	12/23/16 13:42	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/20/16 09:01	12/23/16 13:42	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/20/16 09:01	12/23/16 13:42	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/20/16 09:01	12/23/16 13:42	1
Phenol	1.0	U	1.0	0.15	ug/L		12/20/16 09:01	12/23/16 13:42	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/20/16 09:01	12/23/16 13:42	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/20/16 09:01	12/23/16 13:42	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/20/16 09:01	12/23/16 13:42	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/20/16 09:01	12/23/16 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*44 - 120*	*12/20/16 09:01*	*12/23/16 13:42*	*1*
2-Fluorophenol (Surr)	*64*		*26 - 120*	*12/20/16 09:01*	*12/23/16 13:42*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*36 - 120*	*12/20/16 09:01*	*12/23/16 13:42*	*1*
Nitrobenzene-d5 (Surr)	*67*		*44 - 120*	*12/20/16 09:01*	*12/23/16 13:42*	*1*
Phenol-d5 (Surr)	*44*		*16 - 120*	*12/20/16 09:01*	*12/23/16 13:42*	*1*
Terphenyl-d14 (Surr)	*67*		*43 - 120*	*12/20/16 09:01*	*12/23/16 13:42*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U H	0.20	0.044	ug/L		12/23/16 09:03	12/28/16 10:05	1
Acenaphthylene	0.20	U H	0.20	0.020	ug/L		12/23/16 09:03	12/28/16 10:05	1
Acetophenone	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/28/16 10:05	1
Aniline	5.0	U H	5.0	0.22	ug/L		12/23/16 09:03	12/28/16 10:05	1
Anthracene	0.20	U H	0.20	0.031	ug/L		12/23/16 09:03	12/28/16 10:05	1
Atrazine	2.0	U H	2.0	0.12	ug/L		12/23/16 09:03	12/28/16 10:05	1
Benzaldehyde	2.0	U H	2.0	0.30	ug/L		12/23/16 09:03	12/28/16 10:05	1
Benzo[a]anthracene	0.20	U H	0.20	0.059	ug/L		12/23/16 09:03	12/28/16 10:05	1
Benzo[b]fluoranthene	0.20	U H	0.20	0.059	ug/L		12/23/16 09:03	12/28/16 10:05	1
Benzo[k]fluoranthene	0.20	U H	0.20	0.048	ug/L		12/23/16 09:03	12/28/16 10:05	1
Benzo[g,h,i]perylene	0.20	U H	0.20	0.050	ug/L		12/23/16 09:03	12/28/16 10:05	1
Benzo[a]pyrene	0.20	U H	0.20	0.030	ug/L		12/23/16 09:03	12/28/16 10:05	1
Butyl benzyl phthalate	1.0	U H	1.0	0.22	ug/L		12/23/16 09:03	12/28/16 10:05	1
1,1'-Biphenyl	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/28/16 10:05	1
Bis(2-chloroethoxy)methane	1.0	U H	1.0	0.037	ug/L		12/23/16 09:03	12/28/16 10:05	1
Bis(2-chloroethyl)ether	1.0	U H	1.0	0.19	ug/L		12/23/16 09:03	12/28/16 10:05	1

Client Sample ID: 20161213UAW23-20V23N
Date Collected: 12/13/16 17:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-7
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	2.0	U H	2.0	1.5	ug/L		12/23/16 09:03	12/28/16 10:05	1
4-Bromophenyl phenyl ether	2.0	U H	2.0	0.35	ug/L		12/23/16 09:03	12/28/16 10:05	1
Caprolactam	5.0	U H	5.0	0.37	ug/L		12/23/16 09:03	12/28/16 10:05	1
Carbazole	1.0	U H	1.0	0.11	ug/L		12/23/16 09:03	12/28/16 10:05	1
4-Chloroaniline	2.0	U H	2.0	0.15	ug/L		12/23/16 09:03	12/28/16 10:05	1
4-Chloro-3-methylphenol	2.0	U H	2.0	0.28	ug/L		12/23/16 09:03	12/28/16 10:05	1
2-Chloronaphthalene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/28/16 10:05	1
2-Chlorophenol	1.0	U H	1.0	0.13	ug/L		12/23/16 09:03	12/28/16 10:05	1
4-Chlorophenyl phenyl ether	2.0	U H	2.0	0.29	ug/L		12/23/16 09:03	12/28/16 10:05	1
Chrysene	0.20	U H	0.20	0.035	ug/L		12/23/16 09:03	12/28/16 10:05	1
2-Methylnaphthalene	0.20	U H	0.20	0.037	ug/L		12/23/16 09:03	12/28/16 10:05	1
3 & 4 Methylphenol	2.0	U H	2.0	0.34	ug/L		12/23/16 09:03	12/28/16 10:05	1
Dibenz(a,h)anthracene	0.20	U H	0.20	0.040	ug/L		12/23/16 09:03	12/28/16 10:05	1
Dibenzofuran	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/28/16 10:05	1
3,3'-Dichlorobenzidine	5.0	U H	5.0	0.35	ug/L		12/23/16 09:03	12/28/16 10:05	1
2,4-Dichlorophenol	2.0	U H	2.0	0.29	ug/L		12/23/16 09:03	12/28/16 10:05	1
Diethyl phthalate	1.0	U H	1.0	0.13	ug/L		12/23/16 09:03	12/28/16 10:05	1
2,4-Dimethylphenol	2.0	U H	2.0	0.31	ug/L		12/23/16 09:03	12/28/16 10:05	1
Dimethyl phthalate	1.0	U H	1.0	0.10	ug/L		12/23/16 09:03	12/28/16 10:05	1
4,6-Dinitro-2-methylphenol	5.0	U H	5.0	0.53	ug/L		12/23/16 09:03	12/28/16 10:05	1
2,4-Dinitrophenol	40	U H	40	6.1	ug/L		12/23/16 09:03	12/28/16 10:05	1
2,4-Dinitrotoluene	5.0	U H	5.0	0.26	ug/L		12/23/16 09:03	12/28/16 10:05	1
Di-n-butyl phthalate	**0.89**	**J H B**	1.0	0.40	ug/L		12/23/16 09:03	12/28/16 10:05	1
Di-n-octyl phthalate	1.0	U H	1.0	0.37	ug/L		12/23/16 09:03	12/28/16 10:05	1
Fluoranthene	0.20	U H	0.20	0.027	ug/L		12/23/16 09:03	12/28/16 10:05	1
Fluorene	0.20	U H	0.20	0.034	ug/L		12/23/16 09:03	12/28/16 10:05	1
Hexachlorobenzene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/28/16 10:05	1
Hexachlorobutadiene	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/28/16 10:05	1
Hexachlorocyclopentadiene	10	U H	10	2.5	ug/L		12/23/16 09:03	12/28/16 10:05	1
Hexachloroethane	1.0	U H	1.0	0.22	ug/L		12/23/16 09:03	12/28/16 10:05	1
Indeno[1,2,3-cd]pyrene	0.20	U H	0.20	0.048	ug/L		12/23/16 09:03	12/28/16 10:05	1
Isophorone	1.0	U H	1.0	0.042	ug/L		12/23/16 09:03	12/28/16 10:05	1
2-Methylphenol	1.0	U H	1.0	0.19	ug/L		12/23/16 09:03	12/28/16 10:05	1
Naphthalene	0.20	U H	0.20	0.043	ug/L		12/23/16 09:03	12/28/16 10:05	1
2-Nitroaniline	2.0	U H	2.0	0.31	ug/L		12/23/16 09:03	12/28/16 10:05	1
3-Nitroaniline	2.0	U H *	2.0	0.27	ug/L		12/23/16 09:03	12/28/16 10:05	1
4-Nitroaniline	2.0	U H	2.0	0.24	ug/L		12/23/16 09:03	12/28/16 10:05	1
Nitrobenzene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/28/16 10:05	1
2-Nitrophenol	2.0	U H	2.0	0.21	ug/L		12/23/16 09:03	12/28/16 10:05	1
4-Nitrophenol	5.0	U H	5.0	0.59	ug/L		12/23/16 09:03	12/28/16 10:05	1
N-Nitrosodiphenylamine	1.0	U H	1.0	0.11	ug/L		12/23/16 09:03	12/28/16 10:05	1
N-Nitrosodi-n-propylamine	1.0	U H	1.0	0.16	ug/L		12/23/16 09:03	12/28/16 10:05	1
2,2'-oxybis(1-chloropropane)	1.0	U H	1.0	0.18	ug/L		12/23/16 09:03	12/28/16 10:05	1
Pentachlorophenol	40	U H	40	5.5	ug/L		12/23/16 09:03	12/28/16 10:05	1
Phenanthrene	0.20	U H	0.20	0.031	ug/L		12/23/16 09:03	12/28/16 10:05	1
Phenol	1.0	U H	1.0	0.15	ug/L		12/23/16 09:03	12/28/16 10:05	1
Pyrene	0.20	U H	0.20	0.028	ug/L		12/23/16 09:03	12/28/16 10:05	1
2,4,5-Trichlorophenol	5.0	U H	5.0	0.37	ug/L		12/23/16 09:03	12/28/16 10:05	1
2,4,6-Trichlorophenol	5.0	U H	5.0	0.26	ug/L		12/23/16 09:03	12/28/16 10:05	1

Client Sample ID: 20161213UAW23-20V23N
Date Collected: 12/13/16 17:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-7
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	5.0	U H	5.0	0.24	ug/L		12/23/16 09:03	12/28/16 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*49*		*44 - 120*	*12/23/16 09:03*	*12/28/16 10:05*	*1*
2-Fluorophenol (Surr)	*80*		*26 - 120*	*12/23/16 09:03*	*12/28/16 10:05*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*36 - 120*	*12/23/16 09:03*	*12/28/16 10:05*	*1*
Nitrobenzene-d5 (Surr)	*38*	*X*	*44 - 120*	*12/23/16 09:03*	*12/28/16 10:05*	*1*
Phenol-d5 (Surr)	*48*		*16 - 120*	*12/23/16 09:03*	*12/28/16 10:05*	*1*
Terphenyl-d14 (Surr)	*72*		*43 - 120*	*12/23/16 09:03*	*12/28/16 10:05*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/16/16 14:00	12/20/16 03:39	1
Antimony	10	U	10	3.1	ug/L		12/16/16 14:00	12/20/16 03:39	1
Barium	**47**	**J**	200	2.4	ug/L		12/16/16 14:00	12/20/16 03:39	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/16/16 14:00	12/20/16 03:39	1
Calcium	**270000**		5000	710	ug/L		12/16/16 14:00	12/20/16 03:39	1
Cadmium	**0.32**	**J**	2.0	0.29	ug/L		12/16/16 14:00	12/20/16 03:39	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/16/16 14:00	12/20/16 03:39	1
Chromium	**54**		5.0	0.55	ug/L		12/16/16 14:00	12/20/16 03:39	1
Copper	25	U	25	3.9	ug/L		12/16/16 14:00	12/20/16 03:39	1
Iron	**7200**		100	25	ug/L		12/16/16 14:00	12/20/16 03:39	1
Potassium	**23000**		5000	70	ug/L		12/16/16 14:00	12/20/16 03:39	1
Magnesium	**65000**		5000	230	ug/L		12/16/16 14:00	12/20/16 03:39	1
Manganese	**79**		15	5.1	ug/L		12/16/16 14:00	12/20/16 03:39	1
Silver	5.0	U	5.0	0.92	ug/L		12/16/16 14:00	12/20/16 03:39	1
Sodium	**97000**	**B**	5000	330	ug/L		12/16/16 14:00	12/20/16 03:39	1
Nickel	**45**		40	1.6	ug/L		12/16/16 14:00	12/20/16 03:39	1
Vanadium	10	U	10	4.4	ug/L		12/16/16 14:00	12/20/16 03:39	1
Zinc	50	U	50	16	ug/L		12/16/16 14:00	12/20/16 03:39	1
Arsenic	10	U	10	3.3	ug/L		12/16/16 14:00	12/20/16 03:39	1
Lead	5.0	U	5.0	1.9	ug/L		12/16/16 14:00	12/20/16 03:39	1
Selenium	**30**		15	5.1	ug/L		12/16/16 14:00	12/20/16 03:39	1
Thallium	10	U	10	2.1	ug/L		12/16/16 14:00	12/20/16 03:39	1
Tin	100	U	100	1.8	ug/L		12/16/16 14:00	12/20/16 03:39	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/16/16 14:00	12/17/16 12:19	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Client Sample ID: 20161213UAW21-80V72N
Date Collected: 12/13/16 12:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/21/16 18:11	1
Benzene	1.0	U	1.0	0.28	ug/L			12/21/16 18:11	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/21/16 18:11	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/21/16 18:11	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/21/16 18:11	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/21/16 18:11	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/21/16 18:11	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/21/16 18:11	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 18:11	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/21/16 18:11	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/21/16 18:11	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/21/16 18:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 18:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/21/16 18:11	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/21/16 18:11	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/21/16 18:11	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/21/16 18:11	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/21/16 18:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/21/16 18:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 18:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/21/16 18:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 18:11	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/21/16 18:11	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/21/16 18:11	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/21/16 18:11	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/21/16 18:11	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/16 18:11	1
2-Hexanone	10	U	10	1.2	ug/L			12/21/16 18:11	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/21/16 18:11	1
Methyl acetate	10	U	10	1.4	ug/L			12/21/16 18:11	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/21/16 18:11	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/21/16 18:11	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/21/16 18:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/21/16 18:11	1
Styrene	1.0	U	1.0	0.23	ug/L			12/21/16 18:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/21/16 18:11	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 18:11	1
Toluene	1.0	U	1.0	0.23	ug/L			12/21/16 18:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/16 18:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/21/16 18:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/21/16 18:11	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/16 18:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/21/16 18:11	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/21/16 18:11	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 18:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/21/16 18:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/21/16 18:11	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/21/16 18:11	1

Client Sample ID: 20161213UAW21-80V72N

Lab Sample ID: 240-73378-8

Date Collected: 12/13/16 12:10

Matrix: Water

Date Received: 12/15/16 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*12/21/16 18:11*	*1*
Dibromofluoromethane (Surr)	*87*		*80 - 120*		*12/21/16 18:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*63 - 132*		*12/21/16 18:11*	*1*
Toluene-d8 (Surr)	*83*		*73 - 124*		*12/21/16 18:11*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/20/16 09:01	12/23/16 14:07	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/20/16 09:01	12/23/16 14:07	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 14:07	1
Aniline	5.0	U	5.0	0.22	ug/L		12/20/16 09:01	12/23/16 14:07	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/20/16 09:01	12/23/16 14:07	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/20/16 09:01	12/23/16 14:07	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/20/16 09:01	12/23/16 14:07	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/20/16 09:01	12/23/16 14:07	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/20/16 09:01	12/23/16 14:07	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/20/16 09:01	12/23/16 14:07	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/20/16 09:01	12/23/16 14:07	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/20/16 09:01	12/23/16 14:07	1
Butyl benzyl phthalate	1.0	U *	1.0	0.22	ug/L		12/20/16 09:01	12/23/16 14:07	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 14:07	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/20/16 09:01	12/23/16 14:07	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/23/16 14:07	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/20/16 09:01	12/23/16 14:07	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/20/16 09:01	12/23/16 14:07	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/20/16 09:01	12/23/16 14:07	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 14:07	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/20/16 09:01	12/23/16 14:07	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/20/16 09:01	12/23/16 14:07	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 14:07	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 14:07	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/20/16 09:01	12/23/16 14:07	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/20/16 09:01	12/23/16 14:07	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/20/16 09:01	12/23/16 14:07	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/20/16 09:01	12/23/16 14:07	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/20/16 09:01	12/23/16 14:07	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 14:07	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/20/16 09:01	12/23/16 14:07	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/20/16 09:01	12/23/16 14:07	1
Diethyl phthalate	1.0	U *	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 14:07	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/20/16 09:01	12/23/16 14:07	1
Dimethyl phthalate	1.0	U *	1.0	0.10	ug/L		12/20/16 09:01	12/23/16 14:07	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/20/16 09:01	12/23/16 14:07	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/20/16 09:01	12/23/16 14:07	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/20/16 09:01	12/23/16 14:07	1
Di-n-butyl phthalate	1.0	U	1.0	0.40	ug/L		12/20/16 09:01	12/23/16 14:07	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/20/16 09:01	12/23/16 14:07	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/20/16 09:01	12/23/16 14:07	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/20/16 09:01	12/23/16 14:07	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 14:07	1

Client Sample ID: 20161213UAW21-80V72N
Date Collected: 12/13/16 12:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-8
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 14:07	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/20/16 09:01	12/23/16 14:07	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/20/16 09:01	12/23/16 14:07	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/20/16 09:01	12/23/16 14:07	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/20/16 09:01	12/23/16 14:07	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/23/16 14:07	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/20/16 09:01	12/23/16 14:07	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/20/16 09:01	12/23/16 14:07	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/20/16 09:01	12/23/16 14:07	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/20/16 09:01	12/23/16 14:07	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 14:07	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/20/16 09:01	12/23/16 14:07	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/20/16 09:01	12/23/16 14:07	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 14:07	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/20/16 09:01	12/23/16 14:07	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/20/16 09:01	12/23/16 14:07	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/20/16 09:01	12/23/16 14:07	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/20/16 09:01	12/23/16 14:07	1
Phenol	1.0	U	1.0	0.15	ug/L		12/20/16 09:01	12/23/16 14:07	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/20/16 09:01	12/23/16 14:07	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/20/16 09:01	12/23/16 14:07	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/20/16 09:01	12/23/16 14:07	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/20/16 09:01	12/23/16 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*46*		*44 - 120*	*12/20/16 09:01*	*12/23/16 14:07*	*1*
2-Fluorophenol (Surr)	*30*		*26 - 120*	*12/20/16 09:01*	*12/23/16 14:07*	*1*
2,4,6-Tribromophenol (Surr)	*20*	*X*	*36 - 120*	*12/20/16 09:01*	*12/23/16 14:07*	*1*
Nitrobenzene-d5 (Surr)	*52*		*44 - 120*	*12/20/16 09:01*	*12/23/16 14:07*	*1*
Phenol-d5 (Surr)	*22*		*16 - 120*	*12/20/16 09:01*	*12/23/16 14:07*	*1*
Terphenyl-d14 (Surr)	*49*		*43 - 120*	*12/20/16 09:01*	*12/23/16 14:07*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U H	0.20	0.044	ug/L		12/23/16 09:03	12/27/16 13:49	1
Acenaphthylene	0.20	U H	0.20	0.020	ug/L		12/23/16 09:03	12/27/16 13:49	1
Acetophenone	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 13:49	1
Aniline	5.0	U H	5.0	0.22	ug/L		12/23/16 09:03	12/27/16 13:49	1
Anthracene	0.20	U H	0.20	0.031	ug/L		12/23/16 09:03	12/27/16 13:49	1
Atrazine	2.0	U H	2.0	0.12	ug/L		12/23/16 09:03	12/27/16 13:49	1
Benzaldehyde	2.0	U H	2.0	0.30	ug/L		12/23/16 09:03	12/27/16 13:49	1
Benzo[a]anthracene	0.20	U H	0.20	0.059	ug/L		12/23/16 09:03	12/27/16 13:49	1
Benzo[b]fluoranthene	0.20	U H	0.20	0.059	ug/L		12/23/16 09:03	12/27/16 13:49	1
Benzo[k]fluoranthene	0.20	U H	0.20	0.048	ug/L		12/23/16 09:03	12/27/16 13:49	1
Benzo[g,h,i]perylene	0.20	U H	0.20	0.050	ug/L		12/23/16 09:03	12/27/16 13:49	1
Benzo[a]pyrene	0.20	U H	0.20	0.030	ug/L		12/23/16 09:03	12/27/16 13:49	1
Butyl benzyl phthalate	1.0	U H	1.0	0.22	ug/L		12/23/16 09:03	12/27/16 13:49	1
1,1'-Biphenyl	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 13:49	1
Bis(2-chloroethoxy)methane	1.0	U H	1.0	0.037	ug/L		12/23/16 09:03	12/27/16 13:49	1
Bis(2-chloroethyl)ether	1.0	U H	1.0	0.19	ug/L		12/23/16 09:03	12/27/16 13:49	1

Client Sample ID: 20161213UAW21-80V72N
Date Collected: 12/13/16 12:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-8
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	2.0	U H	2.0	1.5	ug/L		12/23/16 09:03	12/27/16 13:49	1
4-Bromophenyl phenyl ether	2.0	U H	2.0	0.35	ug/L		12/23/16 09:03	12/27/16 13:49	1
Caprolactam	5.0	U H	5.0	0.37	ug/L		12/23/16 09:03	12/27/16 13:49	1
Carbazole	1.0	U H	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 13:49	1
4-Chloroaniline	2.0	U H	2.0	0.15	ug/L		12/23/16 09:03	12/27/16 13:49	1
4-Chloro-3-methylphenol	2.0	U H	2.0	0.28	ug/L		12/23/16 09:03	12/27/16 13:49	1
2-Chloronaphthalene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 13:49	1
2-Chlorophenol	1.0	U H	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 13:49	1
4-Chlorophenyl phenyl ether	2.0	U H	2.0	0.29	ug/L		12/23/16 09:03	12/27/16 13:49	1
Chrysene	0.20	U H	0.20	0.035	ug/L		12/23/16 09:03	12/27/16 13:49	1
2-Methylnaphthalene	0.20	U H	0.20	0.037	ug/L		12/23/16 09:03	12/27/16 13:49	1
3 & 4 Methylphenol	2.0	U H	2.0	0.34	ug/L		12/23/16 09:03	12/27/16 13:49	1
Dibenz(a,h)anthracene	0.20	U H	0.20	0.040	ug/L		12/23/16 09:03	12/27/16 13:49	1
Dibenzofuran	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 13:49	1
3,3'-Dichlorobenzidine	5.0	U H	5.0	0.35	ug/L		12/23/16 09:03	12/27/16 13:49	1
2,4-Dichlorophenol	2.0	U H	2.0	0.29	ug/L		12/23/16 09:03	12/27/16 13:49	1
Diethyl phthalate	1.0	U H	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 13:49	1
2,4-Dimethylphenol	2.0	U H	2.0	0.31	ug/L		12/23/16 09:03	12/27/16 13:49	1
Dimethyl phthalate	1.0	U H	1.0	0.10	ug/L		12/23/16 09:03	12/27/16 13:49	1
4,6-Dinitro-2-methylphenol	5.0	U H	5.0	0.53	ug/L		12/23/16 09:03	12/27/16 13:49	1
2,4-Dinitrophenol	40	U H	40	6.1	ug/L		12/23/16 09:03	12/27/16 13:49	1
2,4-Dinitrotoluene	5.0	U H	5.0	0.26	ug/L		12/23/16 09:03	12/27/16 13:49	1
Di-n-butyl phthalate	1.0	U H	1.0	0.40	ug/L		12/23/16 09:03	12/27/16 13:49	1
Di-n-octyl phthalate	1.0	U H	1.0	0.37	ug/L		12/23/16 09:03	12/27/16 13:49	1
Fluoranthene	0.20	U H	0.20	0.027	ug/L		12/23/16 09:03	12/27/16 13:49	1
Fluorene	0.20	U H	0.20	0.034	ug/L		12/23/16 09:03	12/27/16 13:49	1
Hexachlorobenzene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 13:49	1
Hexachlorobutadiene	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 13:49	1
Hexachlorocyclopentadiene	10	U H	10	2.5	ug/L		12/23/16 09:03	12/27/16 13:49	1
Hexachloroethane	1.0	U H	1.0	0.22	ug/L		12/23/16 09:03	12/27/16 13:49	1
Indeno[1,2,3-cd]pyrene	0.20	U H	0.20	0.048	ug/L		12/23/16 09:03	12/27/16 13:49	1
Isophorone	1.0	U H	1.0	0.042	ug/L		12/23/16 09:03	12/27/16 13:49	1
2-Methylphenol	1.0	U H	1.0	0.19	ug/L		12/23/16 09:03	12/27/16 13:49	1
Naphthalene	0.20	U H	0.20	0.043	ug/L		12/23/16 09:03	12/27/16 13:49	1
2-Nitroaniline	2.0	U H	2.0	0.31	ug/L		12/23/16 09:03	12/27/16 13:49	1
3-Nitroaniline	2.0	U H *	2.0	0.27	ug/L		12/23/16 09:03	12/27/16 13:49	1
4-Nitroaniline	2.0	U H	2.0	0.24	ug/L		12/23/16 09:03	12/27/16 13:49	1
Nitrobenzene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 13:49	1
2-Nitrophenol	2.0	U H	2.0	0.21	ug/L		12/23/16 09:03	12/27/16 13:49	1
4-Nitrophenol	5.0	U H	5.0	0.59	ug/L		12/23/16 09:03	12/27/16 13:49	1
N-Nitrosodiphenylamine	1.0	U H	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 13:49	1
N-Nitrosodi-n-propylamine	1.0	U H	1.0	0.16	ug/L		12/23/16 09:03	12/27/16 13:49	1
2,2'-oxybis(1-chloropropane)	1.0	U H	1.0	0.18	ug/L		12/23/16 09:03	12/27/16 13:49	1
Pentachlorophenol	40	U H	40	5.5	ug/L		12/23/16 09:03	12/27/16 13:49	1
Phenanthrene	0.20	U H	0.20	0.031	ug/L		12/23/16 09:03	12/27/16 13:49	1
Phenol	1.0	U H	1.0	0.15	ug/L		12/23/16 09:03	12/27/16 13:49	1
Pyrene	0.20	U H	0.20	0.028	ug/L		12/23/16 09:03	12/27/16 13:49	1
2,4,5-Trichlorophenol	5.0	U H	5.0	0.37	ug/L		12/23/16 09:03	12/27/16 13:49	1
2,4,6-Trichlorophenol	5.0	U H	5.0	0.26	ug/L		12/23/16 09:03	12/27/16 13:49	1

Client Sample ID: 20161213UAW21-80V72N
Date Collected: 12/13/16 12:10
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-8
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	5.0	U H	5.0	0.24	ug/L		12/23/16 09:03	12/27/16 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*44 - 120*	*12/23/16 09:03*	*12/27/16 13:49*	*1*
2-Fluorophenol (Surr)	*32*		*26 - 120*	*12/23/16 09:03*	*12/27/16 13:49*	*1*
2,4,6-Tribromophenol (Surr)	*31*	*X*	*36 - 120*	*12/23/16 09:03*	*12/27/16 13:49*	*1*
Nitrobenzene-d5 (Surr)	*61*		*44 - 120*	*12/23/16 09:03*	*12/27/16 13:49*	*1*
Phenol-d5 (Surr)	*33*		*16 - 120*	*12/23/16 09:03*	*12/27/16 13:49*	*1*
Terphenyl-d14 (Surr)	*57*		*43 - 120*	*12/23/16 09:03*	*12/27/16 13:49*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**160**	**J**	200	40	ug/L		12/16/16 14:00	12/20/16 03:44	1
Antimony	10	U	10	3.1	ug/L		12/16/16 14:00	12/20/16 03:44	1
Barium	**200**		200	2.4	ug/L		12/16/16 14:00	12/20/16 03:44	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/16/16 14:00	12/20/16 03:44	1
Calcium	**120000**		5000	710	ug/L		12/16/16 14:00	12/20/16 03:44	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/16/16 14:00	12/20/16 03:44	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/16/16 14:00	12/20/16 03:44	1
Chromium	**0.68**	**J**	5.0	0.55	ug/L		12/16/16 14:00	12/20/16 03:44	1
Copper	25	U	25	3.9	ug/L		12/16/16 14:00	12/20/16 03:44	1
Iron	**3700**		100	25	ug/L		12/16/16 14:00	12/20/16 03:44	1
Potassium	**1200**	**J**	5000	70	ug/L		12/16/16 14:00	12/20/16 03:44	1
Magnesium	**40000**		5000	230	ug/L		12/16/16 14:00	12/20/16 03:44	1
Manganese	**660**		15	5.1	ug/L		12/16/16 14:00	12/20/16 03:44	1
Silver	5.0	U	5.0	0.92	ug/L		12/16/16 14:00	12/20/16 03:44	1
Sodium	**44000**	**B**	5000	330	ug/L		12/16/16 14:00	12/20/16 03:44	1
Nickel	**4.7**	**J**	40	1.6	ug/L		12/16/16 14:00	12/20/16 03:44	1
Vanadium	10	U	10	4.4	ug/L		12/16/16 14:00	12/20/16 03:44	1
Zinc	50	U	50	16	ug/L		12/16/16 14:00	12/20/16 03:44	1
Arsenic	**85**		10	3.3	ug/L		12/16/16 14:00	12/20/16 03:44	1
Lead	5.0	U	5.0	1.9	ug/L		12/16/16 14:00	12/20/16 03:44	1
Selenium	15	U	15	5.1	ug/L		12/16/16 14:00	12/20/16 03:44	1
Thallium	10	U	10	2.1	ug/L		12/16/16 14:00	12/20/16 03:44	1
Tin	100	U	100	1.8	ug/L		12/16/16 14:00	12/20/16 03:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/16/16 14:00	12/17/16 12:21	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Client Sample ID: 20161214UAW14-10V12N
Date Collected: 12/14/16 11:35
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/21/16 18:34	1
Benzene	1.0	U	1.0	0.28	ug/L			12/21/16 18:34	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/21/16 18:34	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/21/16 18:34	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/21/16 18:34	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/21/16 18:34	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/21/16 18:34	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/21/16 18:34	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 18:34	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/21/16 18:34	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/21/16 18:34	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/21/16 18:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 18:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/21/16 18:34	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/21/16 18:34	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/21/16 18:34	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/21/16 18:34	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/21/16 18:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/21/16 18:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 18:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/21/16 18:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 18:34	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/21/16 18:34	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/21/16 18:34	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/21/16 18:34	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/21/16 18:34	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/16 18:34	1
2-Hexanone	10	U	10	1.2	ug/L			12/21/16 18:34	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/21/16 18:34	1
Methyl acetate	10	U	10	1.4	ug/L			12/21/16 18:34	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/21/16 18:34	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/21/16 18:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/21/16 18:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/21/16 18:34	1
Styrene	1.0	U	1.0	0.23	ug/L			12/21/16 18:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/21/16 18:34	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 18:34	1
Toluene	1.0	U	1.0	0.23	ug/L			12/21/16 18:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/16 18:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/21/16 18:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/21/16 18:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/16 18:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/21/16 18:34	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/21/16 18:34	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 18:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/21/16 18:34	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/21/16 18:34	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/21/16 18:34	1

Client Sample ID: 20161214UAW14-10V12N
Date Collected: 12/14/16 11:35
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*12/21/16 18:34*	*1*
Dibromofluoromethane (Surr)	*86*		*80 - 120*		*12/21/16 18:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*63 - 132*		*12/21/16 18:34*	*1*
Toluene-d8 (Surr)	*79*		*73 - 124*		*12/21/16 18:34*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21	U	0.21	0.046	ug/L		12/20/16 09:01	12/23/16 14:31	1
Acenaphthylene	0.21	U	0.21	0.021	ug/L		12/20/16 09:01	12/23/16 14:31	1
Acetophenone	1.0	U	1.0	0.15	ug/L		12/20/16 09:01	12/23/16 14:31	1
Aniline	5.2	U	5.2	0.23	ug/L		12/20/16 09:01	12/23/16 14:31	1
Anthracene	0.21	U	0.21	0.032	ug/L		12/20/16 09:01	12/23/16 14:31	1
Atrazine	2.1	U	2.1	0.12	ug/L		12/20/16 09:01	12/23/16 14:31	1
Benzaldehyde	2.1	U	2.1	0.31	ug/L		12/20/16 09:01	12/23/16 14:31	1
Benzo[a]anthracene	0.21	U	0.21	0.061	ug/L		12/20/16 09:01	12/23/16 14:31	1
Benzo[b]fluoranthene	0.21	U	0.21	0.061	ug/L		12/20/16 09:01	12/23/16 14:31	1
Benzo[k]fluoranthene	0.21	U	0.21	0.050	ug/L		12/20/16 09:01	12/23/16 14:31	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.052	ug/L		12/20/16 09:01	12/23/16 14:31	1
Benzo[a]pyrene	0.21	U	0.21	0.031	ug/L		12/20/16 09:01	12/23/16 14:31	1
Butyl benzyl phthalate	1.0	U *	1.0	0.23	ug/L		12/20/16 09:01	12/23/16 14:31	1
1,1'-Biphenyl	1.0	U	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 14:31	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.039	ug/L		12/20/16 09:01	12/23/16 14:31	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.20	ug/L		12/20/16 09:01	12/23/16 14:31	1
Bis(2-ethylhexyl) phthalate	2.1	U	2.1	1.6	ug/L		12/20/16 09:01	12/23/16 14:31	1
4-Bromophenyl phenyl ether	2.1	U	2.1	0.36	ug/L		12/20/16 09:01	12/23/16 14:31	1
Caprolactam	5.2	U	5.2	0.39	ug/L		12/20/16 09:01	12/23/16 14:31	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 14:31	1
4-Chloroaniline	2.1	U	2.1	0.16	ug/L		12/20/16 09:01	12/23/16 14:31	1
4-Chloro-3-methylphenol	2.1	U	2.1	0.29	ug/L		12/20/16 09:01	12/23/16 14:31	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 14:31	1
2-Chlorophenol	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 14:31	1
4-Chlorophenyl phenyl ether	2.1	U	2.1	0.31	ug/L		12/20/16 09:01	12/23/16 14:31	1
Chrysene	0.21	U	0.21	0.036	ug/L		12/20/16 09:01	12/23/16 14:31	1
2-Methylnaphthalene	0.21	U	0.21	0.039	ug/L		12/20/16 09:01	12/23/16 14:31	1
3 & 4 Methylphenol	2.1	U	2.1	0.35	ug/L		12/20/16 09:01	12/23/16 14:31	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.042	ug/L		12/20/16 09:01	12/23/16 14:31	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 14:31	1
3,3'-Dichlorobenzidine	5.2	U	5.2	0.37	ug/L		12/20/16 09:01	12/23/16 14:31	1
2,4-Dichlorophenol	2.1	U	2.1	0.31	ug/L		12/20/16 09:01	12/23/16 14:31	1
Diethyl phthalate	1.0	U *	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 14:31	1
2,4-Dimethylphenol	2.1	U	2.1	0.33	ug/L		12/20/16 09:01	12/23/16 14:31	1
Dimethyl phthalate	1.0	U *	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 14:31	1
4,6-Dinitro-2-methylphenol	5.2	U	5.2	0.55	ug/L		12/20/16 09:01	12/23/16 14:31	1
2,4-Dinitrophenol	42	U	42	6.4	ug/L		12/20/16 09:01	12/23/16 14:31	1
2,4-Dinitrotoluene	5.2	U	5.2	0.27	ug/L		12/20/16 09:01	12/23/16 14:31	1
Di-n-butyl phthalate	1.0	U	1.0	0.41	ug/L		12/20/16 09:01	12/23/16 14:31	1
Di-n-octyl phthalate	1.0	U	1.0	0.38	ug/L		12/20/16 09:01	12/23/16 14:31	1
Fluoranthene	0.21	U	0.21	0.028	ug/L		12/20/16 09:01	12/23/16 14:31	1
Fluorene	0.21	U	0.21	0.035	ug/L		12/20/16 09:01	12/23/16 14:31	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 14:31	1

Client Sample ID: 20161214UAW14-10V12N
Date Collected: 12/14/16 11:35
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-9
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.15	ug/L		12/20/16 09:01	12/23/16 14:31	1
Hexachlorocyclopentadiene	10	U	10	2.6	ug/L		12/20/16 09:01	12/23/16 14:31	1
Hexachloroethane	1.0	U	1.0	0.23	ug/L		12/20/16 09:01	12/23/16 14:31	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.050	ug/L		12/20/16 09:01	12/23/16 14:31	1
Isophorone	1.0	U	1.0	0.044	ug/L		12/20/16 09:01	12/23/16 14:31	1
2-Methylphenol	1.0	U	1.0	0.20	ug/L		12/20/16 09:01	12/23/16 14:31	1
Naphthalene	0.21	U	0.21	0.045	ug/L		12/20/16 09:01	12/23/16 14:31	1
2-Nitroaniline	2.1	U	2.1	0.32	ug/L		12/20/16 09:01	12/23/16 14:31	1
3-Nitroaniline	2.1	U	2.1	0.28	ug/L		12/20/16 09:01	12/23/16 14:31	1
4-Nitroaniline	2.1	U	2.1	0.25	ug/L		12/20/16 09:01	12/23/16 14:31	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 14:31	1
2-Nitrophenol	2.1	U	2.1	0.22	ug/L		12/20/16 09:01	12/23/16 14:31	1
4-Nitrophenol	5.2	U	5.2	0.61	ug/L		12/20/16 09:01	12/23/16 14:31	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 14:31	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.17	ug/L		12/20/16 09:01	12/23/16 14:31	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/23/16 14:31	1
Pentachlorophenol	42	U	42	5.7	ug/L		12/20/16 09:01	12/23/16 14:31	1
Phenanthrene	0.21	U	0.21	0.032	ug/L		12/20/16 09:01	12/23/16 14:31	1
Phenol	1.0	U	1.0	0.16	ug/L		12/20/16 09:01	12/23/16 14:31	1
Pyrene	0.21	U	0.21	0.029	ug/L		12/20/16 09:01	12/23/16 14:31	1
2,4,5-Trichlorophenol	5.2	U	5.2	0.38	ug/L		12/20/16 09:01	12/23/16 14:31	1
2,4,6-Trichlorophenol	5.2	U	5.2	0.27	ug/L		12/20/16 09:01	12/23/16 14:31	1
2,6-Dinitrotoluene	5.2	U	5.2	0.24	ug/L		12/20/16 09:01	12/23/16 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*44 - 120*	*12/20/16 09:01*	*12/23/16 14:31*	*1*
2-Fluorophenol (Surr)	*62*		*26 - 120*	*12/20/16 09:01*	*12/23/16 14:31*	*1*
2,4,6-Tribromophenol (Surr)	*43*		*36 - 120*	*12/20/16 09:01*	*12/23/16 14:31*	*1*
Nitrobenzene-d5 (Surr)	*66*		*44 - 120*	*12/20/16 09:01*	*12/23/16 14:31*	*1*
Phenol-d5 (Surr)	*43*		*16 - 120*	*12/20/16 09:01*	*12/23/16 14:31*	*1*
Terphenyl-d14 (Surr)	*60*		*43 - 120*	*12/20/16 09:01*	*12/23/16 14:31*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U H	0.19	0.042	ug/L		12/23/16 09:03	12/27/16 14:13	1
Acenaphthylene	0.19	U H	0.19	0.019	ug/L		12/23/16 09:03	12/27/16 14:13	1
Acetophenone	0.96	U H	0.96	0.13	ug/L		12/23/16 09:03	12/27/16 14:13	1
Aniline	4.8	U H	4.8	0.21	ug/L		12/23/16 09:03	12/27/16 14:13	1
Anthracene	0.19	U H	0.19	0.030	ug/L		12/23/16 09:03	12/27/16 14:13	1
Atrazine	1.9	U H	1.9	0.11	ug/L		12/23/16 09:03	12/27/16 14:13	1
Benzaldehyde	1.9	U H	1.9	0.28	ug/L		12/23/16 09:03	12/27/16 14:13	1
Benzo[a]anthracene	0.19	U H	0.19	0.057	ug/L		12/23/16 09:03	12/27/16 14:13	1
Benzo[b]fluoranthene	0.19	U H	0.19	0.057	ug/L		12/23/16 09:03	12/27/16 14:13	1
Benzo[k]fluoranthene	0.19	U H	0.19	0.046	ug/L		12/23/16 09:03	12/27/16 14:13	1
Benzo[g,h,i]perylene	0.19	U H	0.19	0.048	ug/L		12/23/16 09:03	12/27/16 14:13	1
Benzo[a]pyrene	0.19	U H	0.19	0.029	ug/L		12/23/16 09:03	12/27/16 14:13	1
Butyl benzyl phthalate	0.96	U H	0.96	0.21	ug/L		12/23/16 09:03	12/27/16 14:13	1
1,1'-Biphenyl	0.96	U H	0.96	0.12	ug/L		12/23/16 09:03	12/27/16 14:13	1
Bis(2-chloroethoxy)methane	0.96	U H	0.96	0.036	ug/L		12/23/16 09:03	12/27/16 14:13	1
Bis(2-chloroethyl)ether	0.96	U H	0.96	0.18	ug/L		12/23/16 09:03	12/27/16 14:13	1

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Date Collected: 12/14/16 11:35
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-9
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	1.9	U H	1.9	1.5	ug/L		12/23/16 09:03	12/27/16 14:13	1
4-Bromophenyl phenyl ether	1.9	U H	1.9	0.33	ug/L		12/23/16 09:03	12/27/16 14:13	1
Caprolactam	4.8	U H	4.8	0.36	ug/L		12/23/16 09:03	12/27/16 14:13	1
Carbazole	0.96	U H	0.96	0.10	ug/L		12/23/16 09:03	12/27/16 14:13	1
4-Chloroaniline	1.9	U H	1.9	0.14	ug/L		12/23/16 09:03	12/27/16 14:13	1
4-Chloro-3-methylphenol	1.9	U H	1.9	0.27	ug/L		12/23/16 09:03	12/27/16 14:13	1
2-Chloronaphthalene	0.96	U H	0.96	0.11	ug/L		12/23/16 09:03	12/27/16 14:13	1
2-Chlorophenol	0.96	U H	0.96	0.13	ug/L		12/23/16 09:03	12/27/16 14:13	1
4-Chlorophenyl phenyl ether	1.9	U H	1.9	0.28	ug/L		12/23/16 09:03	12/27/16 14:13	1
Chrysene	0.19	U H	0.19	0.034	ug/L		12/23/16 09:03	12/27/16 14:13	1
2-Methylnaphthalene	0.19	U H	0.19	0.036	ug/L		12/23/16 09:03	12/27/16 14:13	1
3 & 4 Methylphenol	1.9	U H	1.9	0.32	ug/L		12/23/16 09:03	12/27/16 14:13	1
Dibenz(a,h)anthracene	0.19	U H	0.19	0.038	ug/L		12/23/16 09:03	12/27/16 14:13	1
Dibenzofuran	0.96	U H	0.96	0.13	ug/L		12/23/16 09:03	12/27/16 14:13	1
3,3'-Dichlorobenzidine	4.8	U H	4.8	0.34	ug/L		12/23/16 09:03	12/27/16 14:13	1
2,4-Dichlorophenol	1.9	U H	1.9	0.28	ug/L		12/23/16 09:03	12/27/16 14:13	1
Diethyl phthalate	0.96	U H	0.96	0.12	ug/L		12/23/16 09:03	12/27/16 14:13	1
2,4-Dimethylphenol	1.9	U H	1.9	0.30	ug/L		12/23/16 09:03	12/27/16 14:13	1
Dimethyl phthalate	0.96	U H	0.96	0.097	ug/L		12/23/16 09:03	12/27/16 14:13	1
4,6-Dinitro-2-methylphenol	4.8	U H	4.8	0.50	ug/L		12/23/16 09:03	12/27/16 14:13	1
2,4-Dinitrophenol	38	U H	38	5.9	ug/L		12/23/16 09:03	12/27/16 14:13	1
2,4-Dinitrotoluene	4.8	U H	4.8	0.25	ug/L		12/23/16 09:03	12/27/16 14:13	1
Di-n-butyl phthalate	0.96	U H	0.96	0.38	ug/L		12/23/16 09:03	12/27/16 14:13	1
Di-n-octyl phthalate	0.96	U H	0.96	0.35	ug/L		12/23/16 09:03	12/27/16 14:13	1
Fluoranthene	0.19	U H	0.19	0.026	ug/L		12/23/16 09:03	12/27/16 14:13	1
Fluorene	0.19	U H	0.19	0.033	ug/L		12/23/16 09:03	12/27/16 14:13	1
Hexachlorobenzene	0.96	U H	0.96	0.11	ug/L		12/23/16 09:03	12/27/16 14:13	1
Hexachlorobutadiene	0.96	U H	0.96	0.14	ug/L		12/23/16 09:03	12/27/16 14:13	1
Hexachlorocyclopentadiene	9.6	U H	9.6	2.4	ug/L		12/23/16 09:03	12/27/16 14:13	1
Hexachloroethane	0.96	U H	0.96	0.21	ug/L		12/23/16 09:03	12/27/16 14:13	1
Indeno[1,2,3-cd]pyrene	0.19	U H	0.19	0.046	ug/L		12/23/16 09:03	12/27/16 14:13	1
Isophorone	0.96	U H	0.96	0.040	ug/L		12/23/16 09:03	12/27/16 14:13	1
2-Methylphenol	0.96	U H	0.96	0.18	ug/L		12/23/16 09:03	12/27/16 14:13	1
Naphthalene	0.19	U H	0.19	0.041	ug/L		12/23/16 09:03	12/27/16 14:13	1
2-Nitroaniline	1.9	U H	1.9	0.30	ug/L		12/23/16 09:03	12/27/16 14:13	1
3-Nitroaniline	1.9	U H *	1.9	0.25	ug/L		12/23/16 09:03	12/27/16 14:13	1
4-Nitroaniline	1.9	U H	1.9	0.23	ug/L		12/23/16 09:03	12/27/16 14:13	1
Nitrobenzene	0.96	U H	0.96	0.11	ug/L		12/23/16 09:03	12/27/16 14:13	1
2-Nitrophenol	1.9	U H	1.9	0.20	ug/L		12/23/16 09:03	12/27/16 14:13	1
4-Nitrophenol	4.8	U H	4.8	0.56	ug/L		12/23/16 09:03	12/27/16 14:13	1
N-Nitrosodiphenylamine	0.96	U H	0.96	0.11	ug/L		12/23/16 09:03	12/27/16 14:13	1
N-Nitrosodi-n-propylamine	0.96	U H	0.96	0.15	ug/L		12/23/16 09:03	12/27/16 14:13	1
2,2'-oxybis(1-chloropropane)	0.96	U H	0.96	0.18	ug/L		12/23/16 09:03	12/27/16 14:13	1
Pentachlorophenol	38	U H	38	5.3	ug/L		12/23/16 09:03	12/27/16 14:13	1
Phenanthrene	0.19	U H	0.19	0.030	ug/L		12/23/16 09:03	12/27/16 14:13	1
Phenol	0.96	U H	0.96	0.14	ug/L		12/23/16 09:03	12/27/16 14:13	1
Pyrene	0.19	U H	0.19	0.027	ug/L		12/23/16 09:03	12/27/16 14:13	1
2,4,5-Trichlorophenol	4.8	U H	4.8	0.35	ug/L		12/23/16 09:03	12/27/16 14:13	1
2,4,6-Trichlorophenol	4.8	U H	4.8	0.25	ug/L		12/23/16 09:03	12/27/16 14:13	1

Client Sample ID: 20161214UAW14-10V12N
Date Collected: 12/14/16 11:35
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-9
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	4.8	U H	4.8	0.23	ug/L		12/23/16 09:03	12/27/16 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*50*		*44 - 120*	*12/23/16 09:03*	*12/27/16 14:13*	*1*
2-Fluorophenol (Surr)	*42*		*26 - 120*	*12/23/16 09:03*	*12/27/16 14:13*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*36 - 120*	*12/23/16 09:03*	*12/27/16 14:13*	*1*
Nitrobenzene-d5 (Surr)	*51*		*44 - 120*	*12/23/16 09:03*	*12/27/16 14:13*	*1*
Phenol-d5 (Surr)	*42*		*16 - 120*	*12/23/16 09:03*	*12/27/16 14:13*	*1*
Terphenyl-d14 (Surr)	*67*		*43 - 120*	*12/23/16 09:03*	*12/27/16 14:13*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/16/16 14:00	12/20/16 03:48	1
Antimony	10	U	10	3.1	ug/L		12/16/16 14:00	12/20/16 03:48	1
Barium	**80**	**J**	200	2.4	ug/L		12/16/16 14:00	12/20/16 03:48	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/16/16 14:00	12/20/16 03:48	1
Calcium	**97000**		5000	710	ug/L		12/16/16 14:00	12/20/16 03:48	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/16/16 14:00	12/20/16 03:48	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/16/16 14:00	12/20/16 03:48	1
Chromium	**6.7**		5.0	0.55	ug/L		12/16/16 14:00	12/20/16 03:48	1
Copper	25	U	25	3.9	ug/L		12/16/16 14:00	12/20/16 03:48	1
Iron	**4000**		100	25	ug/L		12/16/16 14:00	12/20/16 03:48	1
Potassium	**850**	**J**	5000	70	ug/L		12/16/16 14:00	12/20/16 03:48	1
Magnesium	**28000**		5000	230	ug/L		12/16/16 14:00	12/20/16 03:48	1
Manganese	**35**		15	5.1	ug/L		12/16/16 14:00	12/20/16 03:48	1
Silver	5.0	U	5.0	0.92	ug/L		12/16/16 14:00	12/20/16 03:48	1
Sodium	**26000**	**B**	5000	330	ug/L		12/16/16 14:00	12/20/16 03:48	1
Nickel	**3.5**	**J**	40	1.6	ug/L		12/16/16 14:00	12/20/16 03:48	1
Vanadium	10	U	10	4.4	ug/L		12/16/16 14:00	12/20/16 03:48	1
Zinc	50	U	50	16	ug/L		12/16/16 14:00	12/20/16 03:48	1
Arsenic	**6.8**	**J**	10	3.3	ug/L		12/16/16 14:00	12/20/16 03:48	1
Lead	5.0	U	5.0	1.9	ug/L		12/16/16 14:00	12/20/16 03:48	1
Selenium	15	U	15	5.1	ug/L		12/16/16 14:00	12/20/16 03:48	1
Thallium	10	U	10	2.1	ug/L		12/16/16 14:00	12/20/16 03:48	1
Tin	100	U	100	1.8	ug/L		12/16/16 14:00	12/20/16 03:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/16/16 14:00	12/17/16 12:23	1

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Client Sample ID: 20161214MW-EPA-2V16N
Date Collected: 12/14/16 14:15
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/21/16 18:57	1
Benzene	1.0	U	1.0	0.28	ug/L			12/21/16 18:57	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/21/16 18:57	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/21/16 18:57	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/21/16 18:57	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/21/16 18:57	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/21/16 18:57	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/21/16 18:57	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 18:57	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/21/16 18:57	1
Chloroform	**0.77**	**J**	1.0	0.31	ug/L			12/21/16 18:57	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/21/16 18:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 18:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/21/16 18:57	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/21/16 18:57	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/21/16 18:57	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/21/16 18:57	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/21/16 18:57	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/21/16 18:57	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 18:57	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/21/16 18:57	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 18:57	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/21/16 18:57	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/21/16 18:57	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/21/16 18:57	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/21/16 18:57	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/16 18:57	1
2-Hexanone	10	U	10	1.2	ug/L			12/21/16 18:57	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/21/16 18:57	1
Methyl acetate	10	U	10	1.4	ug/L			12/21/16 18:57	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/21/16 18:57	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/21/16 18:57	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/21/16 18:57	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/21/16 18:57	1
Styrene	1.0	U	1.0	0.23	ug/L			12/21/16 18:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/21/16 18:57	1
Tetrachloroethene	**56**		2.0	0.60	ug/L			12/22/16 11:57	2
Toluene	1.0	U	1.0	0.23	ug/L			12/21/16 18:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/16 18:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/21/16 18:57	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/21/16 18:57	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/16 18:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/21/16 18:57	1
Trichloroethene	**0.41**	**J**	1.0	0.33	ug/L			12/21/16 18:57	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 18:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/21/16 18:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/21/16 18:57	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/21/16 18:57	1

Client Sample ID: 20161214MW-EPA-2V16N
Date Collected: 12/14/16 14:15
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-10
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*12/21/16 18:57*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*12/22/16 11:57*	*2*
Dibromofluoromethane (Surr)	*83*		*80 - 120*		*12/21/16 18:57*	*1*
Dibromofluoromethane (Surr)	*86*		*80 - 120*		*12/22/16 11:57*	*2*
1,2-Dichloroethane-d4 (Surr)	*80*		*63 - 132*		*12/21/16 18:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*63 - 132*		*12/22/16 11:57*	*2*
Toluene-d8 (Surr)	*77*		*73 - 124*		*12/21/16 18:57*	*1*
Toluene-d8 (Surr)	*81*		*73 - 124*		*12/22/16 11:57*	*2*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21	U	0.21	0.046	ug/L		12/20/16 09:01	12/23/16 14:56	1
Acenaphthylene	0.21	U	0.21	0.021	ug/L		12/20/16 09:01	12/23/16 14:56	1
Acetophenone	1.0	U	1.0	0.15	ug/L		12/20/16 09:01	12/23/16 14:56	1
Aniline	5.2	U	5.2	0.23	ug/L		12/20/16 09:01	12/23/16 14:56	1
Anthracene	0.21	U	0.21	0.032	ug/L		12/20/16 09:01	12/23/16 14:56	1
Atrazine	2.1	U	2.1	0.12	ug/L		12/20/16 09:01	12/23/16 14:56	1
Benzaldehyde	2.1	U	2.1	0.31	ug/L		12/20/16 09:01	12/23/16 14:56	1
Benzo[a]anthracene	0.21	U	0.21	0.061	ug/L		12/20/16 09:01	12/23/16 14:56	1
Benzo[b]fluoranthene	0.21	U	0.21	0.061	ug/L		12/20/16 09:01	12/23/16 14:56	1
Benzo[k]fluoranthene	0.21	U	0.21	0.050	ug/L		12/20/16 09:01	12/23/16 14:56	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.052	ug/L		12/20/16 09:01	12/23/16 14:56	1
Benzo[a]pyrene	0.21	U	0.21	0.031	ug/L		12/20/16 09:01	12/23/16 14:56	1
Butyl benzyl phthalate	1.0	U *	1.0	0.23	ug/L		12/20/16 09:01	12/23/16 14:56	1
1,1'-Biphenyl	1.0	U	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 14:56	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.039	ug/L		12/20/16 09:01	12/23/16 14:56	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.20	ug/L		12/20/16 09:01	12/23/16 14:56	1
Bis(2-ethylhexyl) phthalate	2.1	U	2.1	1.6	ug/L		12/20/16 09:01	12/23/16 14:56	1
4-Bromophenyl phenyl ether	2.1	U	2.1	0.36	ug/L		12/20/16 09:01	12/23/16 14:56	1
Caprolactam	5.2	U	5.2	0.39	ug/L		12/20/16 09:01	12/23/16 14:56	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 14:56	1
4-Chloroaniline	2.1	U	2.1	0.16	ug/L		12/20/16 09:01	12/23/16 14:56	1
4-Chloro-3-methylphenol	2.1	U	2.1	0.29	ug/L		12/20/16 09:01	12/23/16 14:56	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 14:56	1
2-Chlorophenol	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 14:56	1
4-Chlorophenyl phenyl ether	2.1	U	2.1	0.31	ug/L		12/20/16 09:01	12/23/16 14:56	1
Chrysene	0.21	U	0.21	0.036	ug/L		12/20/16 09:01	12/23/16 14:56	1
2-Methylnaphthalene	0.21	U	0.21	0.039	ug/L		12/20/16 09:01	12/23/16 14:56	1
3 & 4 Methylphenol	2.1	U	2.1	0.35	ug/L		12/20/16 09:01	12/23/16 14:56	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.042	ug/L		12/20/16 09:01	12/23/16 14:56	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 14:56	1
3,3'-Dichlorobenzidine	5.2	U	5.2	0.37	ug/L		12/20/16 09:01	12/23/16 14:56	1
2,4-Dichlorophenol	2.1	U	2.1	0.31	ug/L		12/20/16 09:01	12/23/16 14:56	1
Diethyl phthalate	1.0	U *	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 14:56	1
2,4-Dimethylphenol	2.1	U	2.1	0.33	ug/L		12/20/16 09:01	12/23/16 14:56	1
Dimethyl phthalate	1.0	U *	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 14:56	1
4,6-Dinitro-2-methylphenol	5.2	U	5.2	0.55	ug/L		12/20/16 09:01	12/23/16 14:56	1
2,4-Dinitrophenol	42	U	42	6.4	ug/L		12/20/16 09:01	12/23/16 14:56	1
2,4-Dinitrotoluene	5.2	U	5.2	0.27	ug/L		12/20/16 09:01	12/23/16 14:56	1
Di-n-butyl phthalate	1.0	U	1.0	0.41	ug/L		12/20/16 09:01	12/23/16 14:56	1

Client Sample ID: 20161214MW-EPA-2V16N
Date Collected: 12/14/16 14:15
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-10
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	1.0	U	1.0	0.38	ug/L		12/20/16 09:01	12/23/16 14:56	1
Fluoranthene	0.21	U	0.21	0.028	ug/L		12/20/16 09:01	12/23/16 14:56	1
Fluorene	0.21	U	0.21	0.035	ug/L		12/20/16 09:01	12/23/16 14:56	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 14:56	1
Hexachlorobutadiene	1.0	U	1.0	0.15	ug/L		12/20/16 09:01	12/23/16 14:56	1
Hexachlorocyclopentadiene	10	U	10	2.6	ug/L		12/20/16 09:01	12/23/16 14:56	1
Hexachloroethane	1.0	U	1.0	0.23	ug/L		12/20/16 09:01	12/23/16 14:56	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.050	ug/L		12/20/16 09:01	12/23/16 14:56	1
Isophorone	1.0	U	1.0	0.044	ug/L		12/20/16 09:01	12/23/16 14:56	1
2-Methylphenol	1.0	U	1.0	0.20	ug/L		12/20/16 09:01	12/23/16 14:56	1
Naphthalene	0.21	U	0.21	0.045	ug/L		12/20/16 09:01	12/23/16 14:56	1
2-Nitroaniline	2.1	U	2.1	0.32	ug/L		12/20/16 09:01	12/23/16 14:56	1
3-Nitroaniline	2.1	U	2.1	0.28	ug/L		12/20/16 09:01	12/23/16 14:56	1
4-Nitroaniline	2.1	U	2.1	0.25	ug/L		12/20/16 09:01	12/23/16 14:56	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 14:56	1
2-Nitrophenol	2.1	U	2.1	0.22	ug/L		12/20/16 09:01	12/23/16 14:56	1
4-Nitrophenol	5.2	U	5.2	0.61	ug/L		12/20/16 09:01	12/23/16 14:56	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 14:56	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.17	ug/L		12/20/16 09:01	12/23/16 14:56	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/23/16 14:56	1
Pentachlorophenol	42	U	42	5.7	ug/L		12/20/16 09:01	12/23/16 14:56	1
Phenanthrene	0.21	U	0.21	0.032	ug/L		12/20/16 09:01	12/23/16 14:56	1
Phenol	1.0	U	1.0	0.16	ug/L		12/20/16 09:01	12/23/16 14:56	1
Pyrene	0.21	U	0.21	0.029	ug/L		12/20/16 09:01	12/23/16 14:56	1
2,4,5-Trichlorophenol	5.2	U	5.2	0.38	ug/L		12/20/16 09:01	12/23/16 14:56	1
2,4,6-Trichlorophenol	5.2	U	5.2	0.27	ug/L		12/20/16 09:01	12/23/16 14:56	1
2,6-Dinitrotoluene	5.2	U	5.2	0.24	ug/L		12/20/16 09:01	12/23/16 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*44 - 120*	*12/20/16 09:01*	*12/23/16 14:56*	*1*
2-Fluorophenol (Surr)	*47*		*26 - 120*	*12/20/16 09:01*	*12/23/16 14:56*	*1*
2,4,6-Tribromophenol (Surr)	*35*	*X*	*36 - 120*	*12/20/16 09:01*	*12/23/16 14:56*	*1*
Nitrobenzene-d5 (Surr)	*62*		*44 - 120*	*12/20/16 09:01*	*12/23/16 14:56*	*1*
Phenol-d5 (Surr)	*32*		*16 - 120*	*12/20/16 09:01*	*12/23/16 14:56*	*1*
Terphenyl-d14 (Surr)	*39*	*X*	*43 - 120*	*12/20/16 09:01*	*12/23/16 14:56*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U H	0.19	0.041	ug/L		12/23/16 09:03	12/27/16 14:37	1
Acenaphthylene	0.19	U H	0.19	0.019	ug/L		12/23/16 09:03	12/27/16 14:37	1
Acetophenone	0.93	U H	0.93	0.13	ug/L		12/23/16 09:03	12/27/16 14:37	1
Aniline	4.6	U H	4.6	0.20	ug/L		12/23/16 09:03	12/27/16 14:37	1
Anthracene	0.19	U H	0.19	0.029	ug/L		12/23/16 09:03	12/27/16 14:37	1
Atrazine	1.9	U H	1.9	0.11	ug/L		12/23/16 09:03	12/27/16 14:37	1
Benzaldehyde	1.9	U H	1.9	0.27	ug/L		12/23/16 09:03	12/27/16 14:37	1
Benzo[a]anthracene	0.19	U H	0.19	0.055	ug/L		12/23/16 09:03	12/27/16 14:37	1
Benzo[b]fluoranthene	0.19	U H	0.19	0.055	ug/L		12/23/16 09:03	12/27/16 14:37	1
Benzo[k]fluoranthene	0.19	U H	0.19	0.044	ug/L		12/23/16 09:03	12/27/16 14:37	1
Benzo[g,h,i]perylene	0.19	U H	0.19	0.046	ug/L		12/23/16 09:03	12/27/16 14:37	1
Benzo[a]pyrene	0.19	U H	0.19	0.028	ug/L		12/23/16 09:03	12/27/16 14:37	1

Client Sample ID: 20161214MW-EPA-2V16N — **Lab Sample ID: 240-73378-10**
Date Collected: 12/14/16 14:15 — **Matrix: Water**
Date Received: 12/15/16 08:00

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	0.93	U H	0.93	0.20	ug/L		12/23/16 09:03	12/27/16 14:37	1
1,1'-Biphenyl	0.93	U H	0.93	0.11	ug/L		12/23/16 09:03	12/27/16 14:37	1
Bis(2-chloroethoxy)methane	0.93	U H	0.93	0.034	ug/L		12/23/16 09:03	12/27/16 14:37	1
Bis(2-chloroethyl)ether	0.93	U H	0.93	0.18	ug/L		12/23/16 09:03	12/27/16 14:37	1
Bis(2-ethylhexyl) phthalate	1.9	U H	1.9	1.4	ug/L		12/23/16 09:03	12/27/16 14:37	1
4-Bromophenyl phenyl ether	1.9	U H	1.9	0.32	ug/L		12/23/16 09:03	12/27/16 14:37	1
Caprolactam	4.6	U H	4.6	0.34	ug/L		12/23/16 09:03	12/27/16 14:37	1
Carbazole	0.93	U H	0.93	0.097	ug/L		12/23/16 09:03	12/27/16 14:37	1
4-Chloroaniline	1.9	U H	1.9	0.14	ug/L		12/23/16 09:03	12/27/16 14:37	1
4-Chloro-3-methylphenol	1.9	U H	1.9	0.26	ug/L		12/23/16 09:03	12/27/16 14:37	1
2-Chloronaphthalene	0.93	U H	0.93	0.11	ug/L		12/23/16 09:03	12/27/16 14:37	1
2-Chlorophenol	0.93	U H	0.93	0.12	ug/L		12/23/16 09:03	12/27/16 14:37	1
4-Chlorophenyl phenyl ether	1.9	U H	1.9	0.27	ug/L		12/23/16 09:03	12/27/16 14:37	1
Chrysene	0.19	U H	0.19	0.032	ug/L		12/23/16 09:03	12/27/16 14:37	1
2-Methylnaphthalene	0.19	U H	0.19	0.034	ug/L		12/23/16 09:03	12/27/16 14:37	1
3 & 4 Methylphenol	1.9	U H	1.9	0.31	ug/L		12/23/16 09:03	12/27/16 14:37	1
Dibenz(a,h)anthracene	0.19	U H	0.19	0.037	ug/L		12/23/16 09:03	12/27/16 14:37	1
Dibenzofuran	0.93	U H	0.93	0.13	ug/L		12/23/16 09:03	12/27/16 14:37	1
3,3'-Dichlorobenzidine	4.6	U H	4.6	0.33	ug/L		12/23/16 09:03	12/27/16 14:37	1
2,4-Dichlorophenol	1.9	U H	1.9	0.27	ug/L		12/23/16 09:03	12/27/16 14:37	1
Diethyl phthalate	0.93	U H	0.93	0.12	ug/L		12/23/16 09:03	12/27/16 14:37	1
2,4-Dimethylphenol	1.9	U H	1.9	0.29	ug/L		12/23/16 09:03	12/27/16 14:37	1
Dimethyl phthalate	0.93	U H	0.93	0.094	ug/L		12/23/16 09:03	12/27/16 14:37	1
4,6-Dinitro-2-methylphenol	4.6	U H	4.6	0.49	ug/L		12/23/16 09:03	12/27/16 14:37	1
2,4-Dinitrophenol	37	U H	37	5.7	ug/L		12/23/16 09:03	12/27/16 14:37	1
2,4-Dinitrotoluene	4.6	U H	4.6	0.24	ug/L		12/23/16 09:03	12/27/16 14:37	1
Di-n-butyl phthalate	**0.45**	**J H B**	0.93	0.37	ug/L		12/23/16 09:03	12/27/16 14:37	1
Di-n-octyl phthalate	**0.60**	**J H**	0.93	0.34	ug/L		12/23/16 09:03	12/27/16 14:37	1
Fluoranthene	0.19	U H	0.19	0.025	ug/L		12/23/16 09:03	12/27/16 14:37	1
Fluorene	0.19	U H	0.19	0.031	ug/L		12/23/16 09:03	12/27/16 14:37	1
Hexachlorobenzene	0.93	U H	0.93	0.11	ug/L		12/23/16 09:03	12/27/16 14:37	1
Hexachlorobutadiene	0.93	U H	0.93	0.13	ug/L		12/23/16 09:03	12/27/16 14:37	1
Hexachlorocyclopentadiene	9.3	U H	9.3	2.3	ug/L		12/23/16 09:03	12/27/16 14:37	1
Hexachloroethane	0.93	U H	0.93	0.20	ug/L		12/23/16 09:03	12/27/16 14:37	1
Indeno[1,2,3-cd]pyrene	0.19	U H	0.19	0.044	ug/L		12/23/16 09:03	12/27/16 14:37	1
Isophorone	0.93	U H	0.93	0.039	ug/L		12/23/16 09:03	12/27/16 14:37	1
2-Methylphenol	0.93	U H	0.93	0.17	ug/L		12/23/16 09:03	12/27/16 14:37	1
Naphthalene	0.19	U H	0.19	0.040	ug/L		12/23/16 09:03	12/27/16 14:37	1
2-Nitroaniline	1.9	U H	1.9	0.29	ug/L		12/23/16 09:03	12/27/16 14:37	1
3-Nitroaniline	1.9	U H *	1.9	0.25	ug/L		12/23/16 09:03	12/27/16 14:37	1
4-Nitroaniline	1.9	U H	1.9	0.22	ug/L		12/23/16 09:03	12/27/16 14:37	1
Nitrobenzene	0.93	U H	0.93	0.11	ug/L		12/23/16 09:03	12/27/16 14:37	1
2-Nitrophenol	1.9	U H	1.9	0.19	ug/L		12/23/16 09:03	12/27/16 14:37	1
4-Nitrophenol	4.6	U H	4.6	0.54	ug/L		12/23/16 09:03	12/27/16 14:37	1
N-Nitrosodiphenylamine	0.93	U H	0.93	0.10	ug/L		12/23/16 09:03	12/27/16 14:37	1
N-Nitrosodi-n-propylamine	0.93	U H	0.93	0.15	ug/L		12/23/16 09:03	12/27/16 14:37	1
2,2'-oxybis(1-chloropropane)	0.93	U H	0.93	0.17	ug/L		12/23/16 09:03	12/27/16 14:37	1
Pentachlorophenol	37	U H	37	5.1	ug/L		12/23/16 09:03	12/27/16 14:37	1
Phenanthrene	0.19	U H	0.19	0.029	ug/L		12/23/16 09:03	12/27/16 14:37	1

Client Sample ID: 20161214MW-EPA-2V16N
Date Collected: 12/14/16 14:15
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-10
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.93	U H	0.93	0.14	ug/L		12/23/16 09:03	12/27/16 14:37	1
Pyrene	0.19	U H	0.19	0.026	ug/L		12/23/16 09:03	12/27/16 14:37	1
2,4,5-Trichlorophenol	4.6	U H	4.6	0.34	ug/L		12/23/16 09:03	12/27/16 14:37	1
2,4,6-Trichlorophenol	4.6	U H	4.6	0.24	ug/L		12/23/16 09:03	12/27/16 14:37	1
2,6-Dinitrotoluene	4.6	U H	4.6	0.22	ug/L		12/23/16 09:03	12/27/16 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*44 - 120*	*12/23/16 09:03*	*12/27/16 14:37*	*1*
2-Fluorophenol (Surr)	*42*		*26 - 120*	*12/23/16 09:03*	*12/27/16 14:37*	*1*
2,4,6-Tribromophenol (Surr)	*38*		*36 - 120*	*12/23/16 09:03*	*12/27/16 14:37*	*1*
Nitrobenzene-d5 (Surr)	*68*		*44 - 120*	*12/23/16 09:03*	*12/27/16 14:37*	*1*
Phenol-d5 (Surr)	*43*		*16 - 120*	*12/23/16 09:03*	*12/27/16 14:37*	*1*
Terphenyl-d14 (Surr)	*53*		*43 - 120*	*12/23/16 09:03*	*12/27/16 14:37*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**650**		200	40	ug/L		12/16/16 14:00	12/20/16 04:01	1
Antimony	10	U	10	3.1	ug/L		12/16/16 14:00	12/20/16 04:01	1
Barium	**150**	**J**	200	2.4	ug/L		12/16/16 14:00	12/20/16 04:01	1
Beryllium	**0.30**	**J**	5.0	0.21	ug/L		12/16/16 14:00	12/20/16 04:01	1
Calcium	**160000**		5000	710	ug/L		12/16/16 14:00	12/20/16 04:01	1
Cadmium	**0.60**	**J**	2.0	0.29	ug/L		12/16/16 14:00	12/20/16 04:01	1
Cobalt	**3.2**	**J**	7.0	0.84	ug/L		12/16/16 14:00	12/20/16 04:01	1
Chromium	**220**		5.0	0.55	ug/L		12/16/16 14:00	12/20/16 04:01	1
Copper	**9.9**	**J**	25	3.9	ug/L		12/16/16 14:00	12/20/16 04:01	1
Iron	**1800**		100	25	ug/L		12/16/16 14:00	12/20/16 04:01	1
Potassium	**3000**	**J**	5000	70	ug/L		12/16/16 14:00	12/20/16 04:01	1
Magnesium	**47000**		5000	230	ug/L		12/16/16 14:00	12/20/16 04:01	1
Manganese	**320**		15	5.1	ug/L		12/16/16 14:00	12/20/16 04:01	1
Silver	5.0	U	5.0	0.92	ug/L		12/16/16 14:00	12/20/16 04:01	1
Sodium	**600000**	**B**	50000	3300	ug/L		12/16/16 14:00	12/21/16 16:45	10
Nickel	**130**		40	1.6	ug/L		12/16/16 14:00	12/20/16 04:01	1
Vanadium	10	U	10	4.4	ug/L		12/16/16 14:00	12/20/16 04:01	1
Zinc	**23**	**J**	50	16	ug/L		12/16/16 14:00	12/20/16 04:01	1
Arsenic	10	U	10	3.3	ug/L		12/16/16 14:00	12/20/16 04:01	1
Lead	5.0	U	5.0	1.9	ug/L		12/16/16 14:00	12/20/16 04:01	1
Selenium	15	U	15	5.1	ug/L		12/16/16 14:00	12/20/16 04:01	1
Thallium	10	U	10	2.1	ug/L		12/16/16 14:00	12/20/16 04:01	1
Tin	**20**	**J**	100	1.8	ug/L		12/16/16 14:00	12/20/16 04:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/16/16 14:00	12/17/16 12:25	1

Client Sample ID: TRIP BLANK
Date Collected: 12/13/16 00:00
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/21/16 19:20	1
Benzene	1.0	U	1.0	0.28	ug/L			12/21/16 19:20	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/21/16 19:20	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/21/16 19:20	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/21/16 19:20	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/21/16 19:20	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/21/16 19:20	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/21/16 19:20	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 19:20	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/21/16 19:20	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/21/16 19:20	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/21/16 19:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 19:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/21/16 19:20	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/21/16 19:20	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/21/16 19:20	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/21/16 19:20	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/21/16 19:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/21/16 19:20	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 19:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/21/16 19:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 19:20	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/21/16 19:20	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/21/16 19:20	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/21/16 19:20	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/21/16 19:20	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/16 19:20	1
2-Hexanone	10	U	10	1.2	ug/L			12/21/16 19:20	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/21/16 19:20	1
Methyl acetate	10	U	10	1.4	ug/L			12/21/16 19:20	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/21/16 19:20	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/21/16 19:20	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/21/16 19:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/21/16 19:20	1
Styrene	1.0	U	1.0	0.23	ug/L			12/21/16 19:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/21/16 19:20	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 19:20	1
Toluene	1.0	U	1.0	0.23	ug/L			12/21/16 19:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/16 19:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/21/16 19:20	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/21/16 19:20	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/16 19:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/21/16 19:20	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/21/16 19:20	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 19:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/21/16 19:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/21/16 19:20	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/21/16 19:20	1

Client Sample ID: TRIP BLANK
Date Collected: 12/13/16 00:00
Date Received: 12/15/16 08:00

Lab Sample ID: 240-73378-11
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		73 - 120		12/21/16 19:20	1
Dibromofluoromethane (Surr)	85		80 - 120		12/21/16 19:20	1
1,2-Dichloroethane-d4 (Surr)	81		63 - 132		12/21/16 19:20	1
Toluene-d8 (Surr)	78		73 - 124		12/21/16 19:20	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(73-120)	(80-120)	(63-132)	(73-124)
240-73351-E-1 MS	Matrix Spike	100	84	87	84
240-73351-H-1 MSD	Matrix Spike Duplicate	98	85	83	84
240-73378-1	20161213UAW21-30V27N	89	86	82	80
240-73378-2	20161213MW-EPA-1V14N	93	87	82	82
240-73378-2	20161213MW-EPA-1V14N	92	88	84	81
240-73378-2 MS	20161213MW-EPA-1V14N	100	83	83	83
240-73378-2 MSD	20161213MW-EPA-1V14N	104	91	89	87
240-73378-3	20161213CINRB-1	93	85	81	82
240-73378-4	20161214UAW17-40V36N	91	86	82	81
240-73378-5	20161214UAW20-60V56N	92	83	79	79
240-73378-5	20161214UAW20-60V56N	93	83	81	79
240-73378-6	20161214UAW20-60V56FD	92	87	82	82
240-73378-6	20161214UAW20-60V56FD	94	85	85	80
240-73378-7	20161213UAW23-20V23N	89	86	81	80
240-73378-8	20161213UAW21-80V72N	90	87	83	83
240-73378-9	20161214UAW14-10V12N	90	86	81	79
240-73378-10	20161214MW-EPA-2V16N	92	83	80	77
240-73378-10	20161214MW-EPA-2V16N	94	86	84	81
240-73378-11	TRIP BLANK	95	85	81	78
LCS 240-260434/4	Lab Control Sample	98	84	83	84
LCS 240-260596/4	Lab Control Sample	97	82	81	81
MB 240-260434/7	Method Blank	95	87	84	81
MB 240-260596/7	Method Blank	92	87	82	78

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(44-120)	(26-120)	(36-120)	(44-120)	(16-120)	(43-120)
240-73378-1	20161213UAW21-30V27N	57	69	39	65	51	63
240-73378-1 - RE	20161213UAW21-30V27N	61	93	49	63	66	85
240-73378-2	20161213MW-EPA-1V14N	37 X	27	46	43 X	33	44
240-73378-2 - RE	20161213MW-EPA-1V14N	54	64	66	60	65	66
240-73378-3	20161213CINRB-1	58	65	36	65	53	70
240-73378-3 - RE	20161213CINRB-1	65	78	51	66	59	75
240-73378-4	20161214UAW17-40V36N	61	51	40	69	36	68
240-73378-4 - RE	20161214UAW17-40V36N	57	35	32 X	57	35	74
240-73378-5	20161214UAW20-60V56N	54	61	44	60	45	70
240-73378-5 - RE	20161214UAW20-60V56N	55	61	47	49	52	65
240-73378-6	20161214UAW20-60V56FD	59	59	43	62	37	68
240-73378-6 - RE	20161214UAW20-60V56FD	51	51	45	48	42	66
240-73378-7	20161213UAW23-20V23N	60	64	49	67	44	67

Surrogate Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(44-120)	(26-120)	(36-120)	(44-120)	(16-120)	(43-120)
240-73378-7 - RE	20161213UAW23-20V23N	49	80	63	38 X	48	72
240-73378-8	20161213UAW21-80V72N	46	30	20 X	52	22	49
240-73378-8 - RE	20161213UAW21-80V72N	56	32	31 X	61	33	57
240-73378-9	20161214UAW14-10V12N	58	62	43	66	43	60
240-73378-9 - RE	20161214UAW14-10V12N	50	42	39	51	42	67
240-73378-10	20161214MW-EPA-2V16N	58	47	35 X	62	32	39 X
240-73378-10 - RE	20161214MW-EPA-2V16N	63	42	38	68	43	53
LCS 240-260234/17-A	Lab Control Sample	75	61	72	83	55	88
LCS 240-260765/18-A	Lab Control Sample	99	116	92	103	72	109
LCSD 240-260234/18-A	Lab Control Sample Dup	69	68	66	76	54	79
LCSD 240-260765/19-A	Lab Control Sample Dup	93	77	76	97	63	112
MB 240-260234/16-A	Method Blank	61	53	47	65	47	72
MB 240-260765/17-A	Method Blank	65	58	51	68	35	75

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-260434/7
Matrix: Water
Analysis Batch: 260434

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/21/16 11:42	1
Benzene	1.0	U	1.0	0.28	ug/L			12/21/16 11:42	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/21/16 11:42	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/21/16 11:42	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/21/16 11:42	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/21/16 11:42	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/21/16 11:42	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/21/16 11:42	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 11:42	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/21/16 11:42	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/21/16 11:42	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/21/16 11:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 11:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/21/16 11:42	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/21/16 11:42	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/21/16 11:42	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/21/16 11:42	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/21/16 11:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/21/16 11:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/21/16 11:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/21/16 11:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 11:42	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/21/16 11:42	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/21/16 11:42	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/21/16 11:42	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/21/16 11:42	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/16 11:42	1
2-Hexanone	10	U	10	1.2	ug/L			12/21/16 11:42	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/21/16 11:42	1
Methyl acetate	10	U	10	1.4	ug/L			12/21/16 11:42	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/21/16 11:42	1
Methylene Chloride	1.11		1.0	0.53	ug/L			12/21/16 11:42	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/21/16 11:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/21/16 11:42	1
Styrene	1.0	U	1.0	0.23	ug/L			12/21/16 11:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/21/16 11:42	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/21/16 11:42	1
Toluene	1.0	U	1.0	0.23	ug/L			12/21/16 11:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/16 11:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/21/16 11:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/21/16 11:42	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/16 11:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/21/16 11:42	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/21/16 11:42	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/21/16 11:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/21/16 11:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/21/16 11:42	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/21/16 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*12/21/16 11:42*	*1*
Dibromofluoromethane (Surr)	*87*		*80 - 120*		*12/21/16 11:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*63 - 132*		*12/21/16 11:42*	*1*
Toluene-d8 (Surr)	*81*		*73 - 124*		*12/21/16 11:42*	*1*

Lab Sample ID: LCS 240-260434/4
Matrix: Water
Analysis Batch: 260434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	17.8		ug/L		89	46 - 120
Benzene	10.0	9.38		ug/L		94	80 - 120
Bromodichloromethane	10.0	9.69		ug/L		97	76 - 125
Bromoform	10.0	10.6		ug/L		106	52 - 157
Bromomethane	10.0	5.91		ug/L		59	24 - 160
2-Butanone (MEK)	20.0	18.6		ug/L		93	54 - 122
Carbon disulfide	10.0	10.1		ug/L		101	58 - 160
Carbon tetrachloride	10.0	10.3		ug/L		103	69 - 149
Chlorobenzene	10.0	9.56		ug/L		96	80 - 120
Chloroethane	10.0	5.31		ug/L		53	24 - 147
Chloroform	10.0	9.41		ug/L		94	80 - 120
Chloromethane	10.0	8.83		ug/L		88	50 - 135
cis-1,2-Dichloroethene	10.0	9.34		ug/L		93	80 - 120
cis-1,3-Dichloropropene	10.0	9.90		ug/L		99	75 - 120
Cyclohexane	10.0	9.48		ug/L		95	66 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.48		ug/L		85	46 - 140
1,2-Dibromoethane	10.0	9.74		ug/L		97	80 - 126
1,2-Dichlorobenzene	10.0	9.34		ug/L		93	80 - 120
1,3-Dichlorobenzene	10.0	9.47		ug/L		95	80 - 120
1,4-Dichlorobenzene	10.0	9.63		ug/L		96	80 - 120
Dichlorodifluoromethane	10.0	9.97		ug/L		100	32 - 140
1,1-Dichloroethane	10.0	8.99		ug/L		90	77 - 121
1,2-Dichloroethane	10.0	9.44		ug/L		94	76 - 130
1,1-Dichloroethene	10.0	10.1		ug/L		101	70 - 141
1,2-Dichloropropane	10.0	9.63		ug/L		96	79 - 121
Ethylbenzene	10.0	10.2		ug/L		102	80 - 120
2-Hexanone	20.0	17.1		ug/L		85	56 - 124
Isopropylbenzene	10.0	11.1		ug/L		111	80 - 120
Methyl acetate	50.0	46.9		ug/L		94	65 - 124
Methylcyclohexane	10.0	9.22		ug/L		92	71 - 122
Methylene Chloride	10.0	10.9		ug/L		109	68 - 136
4-Methyl-2-pentanone (MIBK)	20.0	18.5		ug/L		93	60 - 131
Methyl tert-butyl ether	10.0	9.34		ug/L		93	75 - 126
Styrene	10.0	10.7		ug/L		107	80 - 120
1,1,2,2-Tetrachloroethane	10.0	10.1		ug/L		101	61 - 130
Tetrachloroethene	10.0	9.96		ug/L		100	80 - 123
Toluene	10.0	9.12		ug/L		91	80 - 121
trans-1,2-Dichloroethene	10.0	9.88		ug/L		99	80 - 123
trans-1,3-Dichloropropene	10.0	8.30		ug/L		83	65 - 120
1,2,4-Trichlorobenzene	10.0	8.51		ug/L		85	53 - 137
1,1,1-Trichloroethane	10.0	9.72		ug/L		97	79 - 133
1,1,2-Trichloroethane	10.0	9.22		ug/L		92	80 - 120
Trichloroethene	10.0	10.0		ug/L		100	80 - 122
Trichlorofluoromethane	10.0	8.93		ug/L		89	56 - 161

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260434/4
Matrix: Water
Analysis Batch: 260434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	9.72		ug/L		97	65 - 151
Vinyl chloride	10.0	8.27		ug/L		83	60 - 129
Xylenes, Total	20.0	20.9		ug/L		105	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*84*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*83*		*63 - 132*
Toluene-d8 (Surr)	*84*		*73 - 124*

Lab Sample ID: 240-73378-2 MS
Matrix: Water
Analysis Batch: 260434

Client Sample ID: 20161213MW-EPA-1V14N
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	43000	E	4000	37600	E 4	ug/L		-128	28 - 120
Benzene	200	U	2000	1800		ug/L		90	67 - 126
Bromodichloromethane	200	U	2000	1870		ug/L		94	64 - 127
Bromoform	200	U	2000	1900		ug/L		95	40 - 149
Bromomethane	200	U	2000	1170		ug/L		58	10 - 169
2-Butanone (MEK)	2000	U	4000	3190		ug/L		80	38 - 123
Carbon disulfide	200	U	2000	1820		ug/L		91	43 - 172
Carbon tetrachloride	200	U	2000	1970		ug/L		98	51 - 154
Chlorobenzene	5200		2000	7050		ug/L		93	58 - 128
Chloroethane	200	U	2000	1010		ug/L		51	10 - 162
Chloroform	200	U	2000	1820		ug/L		91	67 - 133
Chloromethane	200	U	2000	1660		ug/L		83	30 - 143
cis-1,2-Dichloroethene	200	U	2000	1780		ug/L		89	64 - 134
cis-1,3-Dichloropropene	200	U	2000	1870		ug/L		93	58 - 120
Cyclohexane	200	U	2000	2040		ug/L		102	36 - 144
1,2-Dibromo-3-Chloropropane	400	U	2000	1480		ug/L		74	37 - 139
1,2-Dibromoethane	200	U	2000	1830		ug/L		91	64 - 137
1,2-Dichlorobenzene	300		2000	2060		ug/L		88	62 - 123
1,3-Dichlorobenzene	200	U	2000	1870		ug/L		94	59 - 122
1,4-Dichlorobenzene	330		2000	2190		ug/L		93	60 - 122
Dichlorodifluoromethane	200	U	2000	2220		ug/L		111	16 - 140
1,1-Dichloroethane	200	U	2000	1720		ug/L		86	57 - 135
1,2-Dichloroethane	200	U	2000	1830		ug/L		91	62 - 137
1,1-Dichloroethene	200	U	2000	1840		ug/L		92	50 - 156
1,2-Dichloropropane	200	U	2000	1840		ug/L		92	66 - 130
Ethylbenzene	200	U	2000	1960		ug/L		98	66 - 123
2-Hexanone	2000	U	4000	3050		ug/L		76	41 - 135
Isopropylbenzene	200	U	2000	2160		ug/L		108	57 - 132
Methyl acetate	2000	U	10000	9150		ug/L		92	46 - 135
Methylcyclohexane	200	U	2000	2200		ug/L		110	31 - 139
Methylene Chloride	190	J B	2000	2010		ug/L		91	48 - 138
4-Methyl-2-pentanone (MIBK)	2000	U	4000	3360		ug/L		84	43 - 143

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-73378-2 MS
Matrix: Water
Analysis Batch: 260434

Client Sample ID: 20161213MW-EPA-1V14N
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	200	U	2000	1720		ug/L		86	50 - 137
Styrene	200	U	2000	2130		ug/L		107	62 - 131
1,1,2,2-Tetrachloroethane	200	U	2000	1870		ug/L		93	48 - 134
Tetrachloroethene	200	U	2000	1900		ug/L		95	54 - 138
Toluene	200	U	2000	1790		ug/L		90	63 - 130
trans-1,2-Dichloroethene	200	U	2000	1830		ug/L		92	70 - 137
trans-1,3-Dichloropropene	200	U	2000	1500		ug/L		75	48 - 120
1,2,4-Trichlorobenzene	200	U	2000	1470		ug/L		74	35 - 140
1,1,1-Trichloroethane	200	U	2000	1830		ug/L		92	55 - 150
1,1,2-Trichloroethane	200	U	2000	1730		ug/L		87	65 - 130
Trichloroethene	200	U	2000	1860		ug/L		93	58 - 139
Trichlorofluoromethane	200	U	2000	1830		ug/L		92	26 - 175
1,1,2-Trichloro-1,2,2-trifluoroethane	200	U	2000	2050		ug/L		103	41 - 149
Vinyl chloride	200	U	2000	1680		ug/L		84	38 - 147
Xylenes, Total	400	U	4000	4070		ug/L		102	60 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*83*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*83*		*63 - 132*
Toluene-d8 (Surr)	*83*		*73 - 124*

Lab Sample ID: 240-73378-2 MSD
Matrix: Water
Analysis Batch: 260434

Client Sample ID: 20161213MW-EPA-1V14N
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	43000	E	4000	46300	E 4	ug/L		91	28 - 120	21	35
Benzene	200	U	2000	1910		ug/L		96	67 - 126	6	31
Bromodichloromethane	200	U	2000	1990		ug/L		100	64 - 127	6	35
Bromoform	200	U	2000	2020		ug/L		101	40 - 149	6	35
Bromomethane	200	U	2000	1060		ug/L		53	10 - 169	10	35
2-Butanone (MEK)	2000	U	4000	3660		ug/L		91	38 - 123	14	35
Carbon disulfide	200	U	2000	2040		ug/L		102	43 - 172	12	35
Carbon tetrachloride	200	U	2000	2260		ug/L		113	51 - 154	14	35
Chlorobenzene	5200		2000	7560		ug/L		118	58 - 128	7	35
Chloroethane	200	U	2000	931		ug/L		47	10 - 162	8	35
Chloroform	200	U	2000	1880		ug/L		94	67 - 133	3	35
Chloromethane	200	U	2000	1680		ug/L		84	30 - 143	1	35
cis-1,2-Dichloroethene	200	U	2000	1860		ug/L		93	64 - 134	4	35
cis-1,3-Dichloropropene	200	U	2000	1920		ug/L		96	58 - 120	3	35
Cyclohexane	200	U	2000	2360		ug/L		118	36 - 144	15	35
1,2-Dibromo-3-Chloropropane	400	U	2000	1620		ug/L		81	37 - 139	9	35
1,2-Dibromoethane	200	U	2000	1960		ug/L		98	64 - 137	7	35
1,2-Dichlorobenzene	300		2000	2210		ug/L		95	62 - 123	7	35
1,3-Dichlorobenzene	200	U	2000	2000		ug/L		100	59 - 122	6	35
1,4-Dichlorobenzene	330		2000	2300		ug/L		99	60 - 122	5	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-73378-2 MSD
Matrix: Water
Analysis Batch: 260434

Client Sample ID: 20161213MW-EPA-1V14N
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	200	U	2000	2490		ug/L		125	16 - 140	12	35
1,1-Dichloroethane	200	U	2000	1850		ug/L		93	57 - 135	7	35
1,2-Dichloroethane	200	U	2000	1850		ug/L		92	62 - 137	1	35
1,1-Dichloroethene	200	U	2000	2120		ug/L		106	50 - 156	14	35
1,2-Dichloropropane	200	U	2000	1980		ug/L		99	66 - 130	7	35
Ethylbenzene	200	U	2000	2100		ug/L		105	66 - 123	7	34
2-Hexanone	2000	U	4000	3390		ug/L		85	41 - 135	10	35
Isopropylbenzene	200	U	2000	2340		ug/L		117	57 - 132	8	35
Methyl acetate	2000	U	10000	10400		ug/L		104	46 - 135	13	34
Methylcyclohexane	200	U	2000	2410		ug/L		120	31 - 139	9	35
Methylene Chloride	190	J B	2000	2170		ug/L		99	48 - 138	8	35
4-Methyl-2-pentanone (MIBK)	2000	U	4000	3670		ug/L		92	43 - 143	9	35
Methyl tert-butyl ether	200	U	2000	1870		ug/L		93	50 - 137	9	35
Styrene	200	U	2000	2180		ug/L		109	62 - 131	2	35
1,1,2,2-Tetrachloroethane	200	U	2000	2010		ug/L		100	48 - 134	7	35
Tetrachloroethene	200	U	2000	2130		ug/L		106	54 - 138	11	35
Toluene	200	U	2000	1870		ug/L		94	63 - 130	4	33
trans-1,2-Dichloroethene	200	U	2000	1940		ug/L		97	70 - 137	6	25
trans-1,3-Dichloropropene	200	U	2000	1580		ug/L		79	48 - 120	5	35
1,2,4-Trichlorobenzene	200	U	2000	1670		ug/L		84	35 - 140	12	35
1,1,1-Trichloroethane	200	U	2000	2040		ug/L		102	55 - 150	11	35
1,1,2-Trichloroethane	200	U	2000	1790		ug/L		90	65 - 130	3	35
Trichloroethene	200	U	2000	2000		ug/L		100	58 - 139	7	35
Trichlorofluoromethane	200	U	2000	1870		ug/L		94	26 - 175	2	35
1,1,2-Trichloro-1,2,2-trifluoroethane	200	U	2000	2320		ug/L		116	41 - 149	12	35
Vinyl chloride	200	U	2000	1700		ug/L		85	38 - 147	1	35
Xylenes, Total	400	U	4000	4280		ug/L		107	60 - 126	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*91*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*89*		*63 - 132*
Toluene-d8 (Surr)	*87*		*73 - 124*

Lab Sample ID: MB 240-260596/7
Matrix: Water
Analysis Batch: 260596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/22/16 11:08	1
Benzene	1.0	U	1.0	0.28	ug/L			12/22/16 11:08	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/22/16 11:08	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/22/16 11:08	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/22/16 11:08	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/22/16 11:08	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/22/16 11:08	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/22/16 11:08	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-260596/7
Matrix: Water
Analysis Batch: 260596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/22/16 11:08	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/22/16 11:08	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/22/16 11:08	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/22/16 11:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/22/16 11:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/22/16 11:08	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/22/16 11:08	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/22/16 11:08	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/22/16 11:08	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/22/16 11:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/22/16 11:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/22/16 11:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/22/16 11:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/22/16 11:08	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/22/16 11:08	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/22/16 11:08	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/22/16 11:08	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/22/16 11:08	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/22/16 11:08	1
2-Hexanone	10	U	10	1.2	ug/L			12/22/16 11:08	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/22/16 11:08	1
Methyl acetate	10	U	10	1.4	ug/L			12/22/16 11:08	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/22/16 11:08	1
Methylene Chloride	0.754	J	1.0	0.53	ug/L			12/22/16 11:08	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/22/16 11:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/22/16 11:08	1
Styrene	1.0	U	1.0	0.23	ug/L			12/22/16 11:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/22/16 11:08	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/22/16 11:08	1
Toluene	1.0	U	1.0	0.23	ug/L			12/22/16 11:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/22/16 11:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/22/16 11:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/22/16 11:08	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/22/16 11:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/22/16 11:08	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/22/16 11:08	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/22/16 11:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/22/16 11:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/22/16 11:08	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/22/16 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*12/22/16 11:08*	*1*
Dibromofluoromethane (Surr)	*87*		*80 - 120*		*12/22/16 11:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 132*		*12/22/16 11:08*	*1*
Toluene-d8 (Surr)	*78*		*73 - 124*		*12/22/16 11:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260596/4
Matrix: Water
Analysis Batch: 260596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	16.7		ug/L		83	46 - 120
Benzene	10.0	9.31		ug/L		93	80 - 120
Bromodichloromethane	10.0	9.75		ug/L		97	76 - 125
Bromoform	10.0	9.79		ug/L		98	52 - 157
Bromomethane	10.0	5.76		ug/L		58	24 - 160
2-Butanone (MEK)	20.0	18.3		ug/L		91	54 - 122
Carbon disulfide	10.0	9.75		ug/L		98	58 - 160
Carbon tetrachloride	10.0	10.2		ug/L		102	69 - 149
Chlorobenzene	10.0	9.66		ug/L		97	80 - 120
Chloroethane	10.0	4.95		ug/L		50	24 - 147
Chloroform	10.0	9.50		ug/L		95	80 - 120
Chloromethane	10.0	7.99		ug/L		80	50 - 135
cis-1,2-Dichloroethene	10.0	9.51		ug/L		95	80 - 120
cis-1,3-Dichloropropene	10.0	9.47		ug/L		95	75 - 120
Cyclohexane	10.0	9.16		ug/L		92	66 - 135
1,2-Dibromo-3-Chloropropane	10.0	8.58		ug/L		86	46 - 140
1,2-Dibromoethane	10.0	9.51		ug/L		95	80 - 126
1,2-Dichlorobenzene	10.0	9.40		ug/L		94	80 - 120
1,3-Dichlorobenzene	10.0	9.70		ug/L		97	80 - 120
1,4-Dichlorobenzene	10.0	10.0		ug/L		100	80 - 120
Dichlorodifluoromethane	10.0	6.57		ug/L		66	32 - 140
1,1-Dichloroethane	10.0	9.24		ug/L		92	77 - 121
1,2-Dichloroethane	10.0	9.24		ug/L		92	76 - 130
1,1-Dichloroethene	10.0	10.0		ug/L		100	70 - 141
1,2-Dichloropropane	10.0	9.37		ug/L		94	79 - 121
Ethylbenzene	10.0	10.1		ug/L		101	80 - 120
2-Hexanone	20.0	16.3		ug/L		82	56 - 124
Isopropylbenzene	10.0	11.4		ug/L		114	80 - 120
Methyl acetate	50.0	45.5		ug/L		91	65 - 124
Methylcyclohexane	10.0	9.26		ug/L		93	71 - 122
Methylene Chloride	10.0	10.4		ug/L		104	68 - 136
4-Methyl-2-pentanone (MIBK)	20.0	17.5		ug/L		87	60 - 131
Methyl tert-butyl ether	10.0	9.13		ug/L		91	75 - 126
Styrene	10.0	10.9		ug/L		109	80 - 120
1,1,2,2-Tetrachloroethane	10.0	9.83		ug/L		98	61 - 130
Tetrachloroethene	10.0	10.2		ug/L		102	80 - 123
Toluene	10.0	9.00		ug/L		90	80 - 121
trans-1,2-Dichloroethene	10.0	9.83		ug/L		98	80 - 123
trans-1,3-Dichloropropene	10.0	8.00		ug/L		80	65 - 120
1,2,4-Trichlorobenzene	10.0	8.18		ug/L		82	53 - 137
1,1,1-Trichloroethane	10.0	9.63		ug/L		96	79 - 133
1,1,2-Trichloroethane	10.0	8.80		ug/L		88	80 - 120
Trichloroethene	10.0	10.0		ug/L		100	80 - 122
Trichlorofluoromethane	10.0	6.37		ug/L		64	56 - 161
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.96		ug/L		90	65 - 151
Vinyl chloride	10.0	7.15		ug/L		72	60 - 129
Xylenes, Total	20.0	20.9		ug/L		105	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260596/4
Matrix: Water
Analysis Batch: 260596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	82		80 - 120
1,2-Dichloroethane-d4 (Surr)	81		63 - 132
Toluene-d8 (Surr)	81		73 - 124

Lab Sample ID: 240-73351-E-1 MS
Matrix: Water
Analysis Batch: 260596

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10	U	20.0	12.4		ug/L		62	28 - 120
Benzene	1.0	U	10.0	8.86		ug/L		89	67 - 126
2-Butanone (MEK)	10	U	20.0	16.2		ug/L		81	38 - 123
Carbon disulfide	1.0	U	10.0	9.52		ug/L		95	43 - 172
Chloroform	1.0	U	10.0	8.86		ug/L		89	67 - 133
cis-1,2-Dichloroethene	1.0	U	10.0	8.97		ug/L		90	64 - 134
Cyclohexane	1.0	U	10.0	11.8		ug/L		118	36 - 144
1,1-Dichloroethene	1.0	U	10.0	9.70		ug/L		97	50 - 156
Ethylbenzene	1.0	U	10.0	9.42		ug/L		94	66 - 123
Methylene Chloride	1.0	U	10.0	9.17		ug/L		92	48 - 138
Tetrachloroethene	1.0	U	10.0	9.19		ug/L		92	54 - 138
Toluene	1.0	U	10.0	8.53		ug/L		85	63 - 130
trans-1,2-Dichloroethene	1.0	U	10.0	9.35		ug/L		94	70 - 137
Trichloroethene	1.0	U	10.0	9.32		ug/L		93	58 - 139
Vinyl chloride	1.0	U	10.0	8.19		ug/L		82	38 - 147
Xylenes, Total	2.0	U	20.0	19.7		ug/L		98	60 - 126

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	84		80 - 120
1,2-Dichloroethane-d4 (Surr)	87		63 - 132
Toluene-d8 (Surr)	84		73 - 124

Lab Sample ID: 240-73351-H-1 MSD
Matrix: Water
Analysis Batch: 260596

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10	U	20.0	16.7		ug/L		84	28 - 120	30	35
Benzene	1.0	U	10.0	9.26		ug/L		93	67 - 126	4	31
2-Butanone (MEK)	10	U	20.0	17.9		ug/L		90	38 - 123	10	35
Carbon disulfide	1.0	U	10.0	9.82		ug/L		98	43 - 172	3	35
Chloroform	1.0	U	10.0	9.32		ug/L		93	67 - 133	5	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.59		ug/L		96	64 - 134	7	35
Cyclohexane	1.0	U	10.0	10.4		ug/L		104	36 - 144	13	35
1,1-Dichloroethene	1.0	U	10.0	10.3		ug/L		103	50 - 156	6	35
Ethylbenzene	1.0	U	10.0	10.4		ug/L		104	66 - 123	9	34
Methylene Chloride	1.0	U	10.0	9.79		ug/L		98	48 - 138	7	35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-73351-H-1 MSD
Matrix: Water
Analysis Batch: 260596

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	1.0	U	10.0	10.0		ug/L		100	54 - 138	9	35
Toluene	1.0	U	10.0	9.11		ug/L		91	63 - 130	7	33
trans-1,2-Dichloroethene	1.0	U	10.0	9.89		ug/L		99	70 - 137	6	25
Trichloroethene	1.0	U	10.0	9.80		ug/L		98	58 - 139	5	35
Vinyl chloride	1.0	U	10.0	8.49		ug/L		85	38 - 147	4	35
Xylenes, Total	2.0	U	20.0	21.0		ug/L		105	60 - 126	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*85*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*83*		*63 - 132*
Toluene-d8 (Surr)	*84*		*73 - 124*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-260234/16-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/20/16 09:01	12/22/16 08:27	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/20/16 09:01	12/22/16 08:27	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/22/16 08:27	1
Aniline	5.0	U	5.0	0.22	ug/L		12/20/16 09:01	12/22/16 08:27	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/20/16 09:01	12/22/16 08:27	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/20/16 09:01	12/22/16 08:27	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/20/16 09:01	12/22/16 08:27	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/20/16 09:01	12/22/16 08:27	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/20/16 09:01	12/22/16 08:27	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/20/16 09:01	12/22/16 08:27	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/20/16 09:01	12/22/16 08:27	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/20/16 09:01	12/22/16 08:27	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/20/16 09:01	12/22/16 08:27	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/22/16 08:27	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/20/16 09:01	12/22/16 08:27	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/22/16 08:27	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/20/16 09:01	12/22/16 08:27	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/20/16 09:01	12/22/16 08:27	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/20/16 09:01	12/22/16 08:27	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/22/16 08:27	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/20/16 09:01	12/22/16 08:27	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/20/16 09:01	12/22/16 08:27	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/22/16 08:27	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/20/16 09:01	12/22/16 08:27	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/20/16 09:01	12/22/16 08:27	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/20/16 09:01	12/22/16 08:27	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/20/16 09:01	12/22/16 08:27	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/20/16 09:01	12/22/16 08:27	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-260234/16-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/20/16 09:01	12/22/16 08:27	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/22/16 08:27	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/20/16 09:01	12/22/16 08:27	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/20/16 09:01	12/22/16 08:27	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/20/16 09:01	12/22/16 08:27	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/20/16 09:01	12/22/16 08:27	1
Di-n-butyl phthalate	1.0	U	1.0	0.40	ug/L		12/20/16 09:01	12/22/16 08:27	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/20/16 09:01	12/22/16 08:27	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/20/16 09:01	12/22/16 08:27	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/20/16 09:01	12/22/16 08:27	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/22/16 08:27	1
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/22/16 08:27	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/20/16 09:01	12/22/16 08:27	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/20/16 09:01	12/22/16 08:27	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/20/16 09:01	12/22/16 08:27	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/20/16 09:01	12/22/16 08:27	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/22/16 08:27	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/20/16 09:01	12/22/16 08:27	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/20/16 09:01	12/22/16 08:27	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/20/16 09:01	12/22/16 08:27	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/20/16 09:01	12/22/16 08:27	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/22/16 08:27	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/20/16 09:01	12/22/16 08:27	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/20/16 09:01	12/22/16 08:27	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/22/16 08:27	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/20/16 09:01	12/22/16 08:27	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/20/16 09:01	12/22/16 08:27	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/20/16 09:01	12/22/16 08:27	1
Phenol	1.0	U	1.0	0.15	ug/L		12/20/16 09:01	12/22/16 08:27	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/20/16 09:01	12/22/16 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*44 - 120*	*12/20/16 09:01*	*12/22/16 08:27*	*1*
2-Fluorophenol (Surr)	*53*		*26 - 120*	*12/20/16 09:01*	*12/22/16 08:27*	*1*
2,4,6-Tribromophenol (Surr)	*47*		*36 - 120*	*12/20/16 09:01*	*12/22/16 08:27*	*1*
Nitrobenzene-d5 (Surr)	*65*		*44 - 120*	*12/20/16 09:01*	*12/22/16 08:27*	*1*
Phenol-d5 (Surr)	*47*		*16 - 120*	*12/20/16 09:01*	*12/22/16 08:27*	*1*
Terphenyl-d14 (Surr)	*72*		*43 - 120*	*12/20/16 09:01*	*12/22/16 08:27*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260234/17-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	22.8		ug/L		71	58 - 120
Acenaphthylene	32.0	22.4		ug/L		70	59 - 120
Acetophenone	32.0	24.9		ug/L		78	62 - 120
Aniline	32.0	25.4		ug/L		79	10 - 120
Anthracene	32.0	24.2		ug/L		76	58 - 120
Atrazine	32.0	26.8		ug/L		84	61 - 120
Benzaldehyde	32.0	30.9		ug/L		97	10 - 120
Benzo[a]anthracene	32.0	23.9		ug/L		75	58 - 120
Benzo[b]fluoranthene	32.0	27.6		ug/L		86	59 - 120
Benzo[k]fluoranthene	32.0	27.1		ug/L		85	61 - 120
Benzo[g,h,i]perylene	32.0	30.5		ug/L		95	41 - 127
Benzo[a]pyrene	32.0	29.1		ug/L		91	63 - 120
Butyl benzyl phthalate	32.0	20.8		ug/L		65	60 - 120
1,1'-Biphenyl	32.0	21.9		ug/L		68	53 - 120
Bis(2-chloroethoxy)methane	32.0	23.5		ug/L		73	63 - 120
Bis(2-chloroethyl)ether	32.0	23.0		ug/L		72	57 - 120
Bis(2-ethylhexyl) phthalate	32.0	26.7		ug/L		83	62 - 120
4-Bromophenyl phenyl ether	32.0	23.6		ug/L		74	55 - 120
Caprolactam	32.0	15.9		ug/L		50	10 - 120
Carbazole	32.0	25.7		ug/L		80	59 - 120
4-Chloroaniline	32.0	27.5		ug/L		86	10 - 120
4-Chloro-3-methylphenol	32.0	25.3		ug/L		79	59 - 120
2-Chloronaphthalene	32.0	21.7		ug/L		68	56 - 120
2-Chlorophenol	32.0	23.3		ug/L		73	62 - 120
4-Chlorophenyl phenyl ether	32.0	23.1		ug/L		72	57 - 120
Chrysene	32.0	23.3		ug/L		73	59 - 120
2-Methylnaphthalene	32.0	21.5		ug/L		67	57 - 120
3 & 4 Methylphenol	32.0	22.0		ug/L		69	53 - 120
Dibenz(a,h)anthracene	32.0	30.6		ug/L		96	39 - 125
Dibenzofuran	32.0	22.9		ug/L		72	58 - 120
3,3'-Dichlorobenzidine	64.0	57.0		ug/L		89	10 - 120
2,4-Dichlorophenol	32.0	22.1		ug/L		69	63 - 120
Diethyl phthalate	32.0	19.9	*	ug/L		62	64 - 120
2,4-Dimethylphenol	32.0	23.4		ug/L		73	41 - 120
Dimethyl phthalate	32.0	15.3	*	ug/L		48	63 - 120
4,6-Dinitro-2-methylphenol	64.0	47.1		ug/L		74	40 - 120
2,4-Dinitrophenol	64.0	38.3	J	ug/L		60	20 - 120
2,4-Dinitrotoluene	32.0	23.9		ug/L		75	62 - 120
Di-n-butyl phthalate	32.0	22.4		ug/L		70	58 - 120
Di-n-octyl phthalate	32.0	27.1		ug/L		85	58 - 128
Fluoranthene	32.0	24.3		ug/L		76	59 - 120
Fluorene	32.0	23.5		ug/L		73	57 - 120
Hexachlorobenzene	32.0	21.6		ug/L		68	48 - 120
Hexachlorobutadiene	32.0	17.7		ug/L		55	47 - 120
Hexachlorocyclopentadiene	32.0	12.2		ug/L		38	24 - 120
Hexachloroethane	32.0	18.7		ug/L		58	48 - 120
Indeno[1,2,3-cd]pyrene	32.0	31.2		ug/L		97	49 - 121
Isophorone	32.0	23.8		ug/L		74	66 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260234/17-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	32.0	24.8		ug/L		78	55 - 120
Naphthalene	32.0	22.1		ug/L		69	58 - 120
2-Nitroaniline	32.0	26.6		ug/L		83	62 - 120
3-Nitroaniline	32.0	48.4		ug/L		151	10 - 171
4-Nitroaniline	32.0	31.3		ug/L		98	32 - 132
Nitrobenzene	32.0	24.6		ug/L		77	63 - 120
2-Nitrophenol	32.0	24.7		ug/L		77	65 - 120
4-Nitrophenol	64.0	31.6		ug/L		49	18 - 120
N-Nitrosodiphenylamine	32.0	24.1		ug/L		75	54 - 120
N-Nitrosodi-n-propylamine	32.0	24.8		ug/L		77	63 - 120
2,2'-oxybis(1-chloropropane)	32.0	24.5		ug/L		77	61 - 120
Pentachlorophenol	64.0	31.4	J	ug/L		49	33 - 120
Phenanthrene	32.0	23.1		ug/L		72	57 - 120
Phenol	32.0	16.5		ug/L		52	21 - 120
Pyrene	32.0	23.8		ug/L		74	57 - 120
2,4,5-Trichlorophenol	32.0	21.8		ug/L		68	61 - 120
2,4,6-Trichlorophenol	32.0	24.1		ug/L		75	57 - 120
2,6-Dinitrotoluene	32.0	25.8		ug/L		81	63 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*44 - 120*
2-Fluorophenol (Surr)	*61*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*72*		*36 - 120*
Nitrobenzene-d5 (Surr)	*83*		*44 - 120*
Phenol-d5 (Surr)	*55*		*16 - 120*
Terphenyl-d14 (Surr)	*88*		*43 - 120*

Lab Sample ID: LCSD 240-260234/18-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260234

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	32.0	20.8		ug/L		65	58 - 120	9	35
Acenaphthylene	32.0	20.6		ug/L		64	59 - 120	9	35
Acetophenone	32.0	22.8		ug/L		71	62 - 120	9	35
Aniline	32.0	22.9		ug/L		72	10 - 120	11	35
Anthracene	32.0	21.9		ug/L		68	58 - 120	10	35
Atrazine	32.0	24.3		ug/L		76	61 - 120	9	35
Benzaldehyde	32.0	26.4		ug/L		83	10 - 120	16	35
Benzo[a]anthracene	32.0	21.7		ug/L		68	58 - 120	10	35
Benzo[b]fluoranthene	32.0	25.0		ug/L		78	59 - 120	10	35
Benzo[k]fluoranthene	32.0	24.0		ug/L		75	61 - 120	12	35
Benzo[g,h,i]perylene	32.0	26.5		ug/L		83	41 - 127	14	35
Benzo[a]pyrene	32.0	25.9		ug/L		81	63 - 120	12	35
Butyl benzyl phthalate	32.0	18.8	*	ug/L		59	60 - 120	10	35
1,1'-Biphenyl	32.0	20.2		ug/L		63	53 - 120	8	35
Bis(2-chloroethoxy)methane	32.0	22.0		ug/L		69	63 - 120	7	35
Bis(2-chloroethyl)ether	32.0	20.8		ug/L		65	57 - 120	10	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 240-260234/18-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260234

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	32.0	24.3		ug/L		76	62 - 120	9	35
4-Bromophenyl phenyl ether	32.0	21.4		ug/L		67	55 - 120	9	35
Caprolactam	32.0	15.3		ug/L		48	10 - 120	4	35
Carbazole	32.0	23.4		ug/L		73	59 - 120	10	35
4-Chloroaniline	32.0	25.6		ug/L		80	10 - 120	7	35
4-Chloro-3-methylphenol	32.0	23.2		ug/L		72	59 - 120	9	35
2-Chloronaphthalene	32.0	20.2		ug/L		63	56 - 120	7	35
2-Chlorophenol	32.0	22.2		ug/L		69	62 - 120	5	35
4-Chlorophenyl phenyl ether	32.0	21.1		ug/L		66	57 - 120	9	35
Chrysene	32.0	21.3		ug/L		67	59 - 120	9	35
2-Methylnaphthalene	32.0	20.1		ug/L		63	57 - 120	7	35
3 & 4 Methylphenol	32.0	20.8		ug/L		65	53 - 120	5	35
Dibenz(a,h)anthracene	32.0	27.1		ug/L		85	39 - 125	12	35
Dibenzofuran	32.0	20.8		ug/L		65	58 - 120	10	35
3,3'-Dichlorobenzidine	64.0	52.4		ug/L		82	10 - 120	8	35
2,4-Dichlorophenol	32.0	20.9		ug/L		65	63 - 120	6	35
Diethyl phthalate	32.0	18.1	*	ug/L		57	64 - 120	9	35
2,4-Dimethylphenol	32.0	22.3		ug/L		70	41 - 120	5	35
Dimethyl phthalate	32.0	13.6	*	ug/L		42	63 - 120	12	35
4,6-Dinitro-2-methylphenol	64.0	42.6		ug/L		67	40 - 120	10	35
2,4-Dinitrophenol	64.0	36.3	J	ug/L		57	20 - 120	5	35
2,4-Dinitrotoluene	32.0	21.7		ug/L		68	62 - 120	10	35
Di-n-butyl phthalate	32.0	20.6		ug/L		64	58 - 120	8	35
Di-n-octyl phthalate	32.0	24.5		ug/L		77	58 - 128	10	35
Fluoranthene	32.0	21.9		ug/L		69	59 - 120	10	35
Fluorene	32.0	21.3		ug/L		66	57 - 120	10	35
Hexachlorobenzene	32.0	19.5		ug/L		61	48 - 120	10	35
Hexachlorobutadiene	32.0	16.5		ug/L		52	47 - 120	7	35
Hexachlorocyclopentadiene	32.0	11.9		ug/L		37	24 - 120	3	35
Hexachloroethane	32.0	16.7		ug/L		52	48 - 120	11	35
Indeno[1,2,3-cd]pyrene	32.0	27.6		ug/L		86	49 - 121	12	35
Isophorone	32.0	22.0		ug/L		69	66 - 120	8	35
2-Methylphenol	32.0	22.8		ug/L		71	55 - 120	8	35
Naphthalene	32.0	20.5		ug/L		64	58 - 120	7	35
2-Nitroaniline	32.0	24.3		ug/L		76	62 - 120	9	35
3-Nitroaniline	32.0	44.0		ug/L		137	10 - 171	9	35
4-Nitroaniline	32.0	28.6		ug/L		89	32 - 132	9	35
Nitrobenzene	32.0	22.8		ug/L		71	63 - 120	8	35
2-Nitrophenol	32.0	23.3		ug/L		73	65 - 120	6	35
4-Nitrophenol	64.0	30.5		ug/L		48	18 - 120	4	35
N-Nitrosodiphenylamine	32.0	22.0		ug/L		69	54 - 120	9	35
N-Nitrosodi-n-propylamine	32.0	22.8		ug/L		71	63 - 120	8	35
2,2'-oxybis(1-chloropropane)	32.0	22.3		ug/L		70	61 - 120	9	35
Pentachlorophenol	64.0	28.9	J	ug/L		45	33 - 120	8	35
Phenanthrene	32.0	20.9		ug/L		65	57 - 120	10	35
Phenol	32.0	16.2		ug/L		51	21 - 120	2	35
Pyrene	32.0	21.7		ug/L		68	57 - 120	9	35
2,4,5-Trichlorophenol	32.0	20.3		ug/L		63	61 - 120	7	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 240-260234/18-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260234

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,6-Trichlorophenol			32.0	22.1		ug/L		69	57 - 120	9	35
2,6-Dinitrotoluene			32.0	23.3		ug/L		73	63 - 120	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*69*		*44 - 120*
2-Fluorophenol (Surr)	*68*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*66*		*36 - 120*
Nitrobenzene-d5 (Surr)	*76*		*44 - 120*
Phenol-d5 (Surr)	*54*		*16 - 120*
Terphenyl-d14 (Surr)	*79*		*43 - 120*

Lab Sample ID: MB 240-260765/17-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/23/16 09:03	12/27/16 09:20	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/23/16 09:03	12/27/16 09:20	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 09:20	1
Aniline	5.0	U	5.0	0.22	ug/L		12/23/16 09:03	12/27/16 09:20	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/23/16 09:03	12/27/16 09:20	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/23/16 09:03	12/27/16 09:20	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/23/16 09:03	12/27/16 09:20	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/23/16 09:03	12/27/16 09:20	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/23/16 09:03	12/27/16 09:20	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/23/16 09:03	12/27/16 09:20	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/23/16 09:03	12/27/16 09:20	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/23/16 09:03	12/27/16 09:20	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/23/16 09:03	12/27/16 09:20	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 09:20	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/23/16 09:03	12/27/16 09:20	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/23/16 09:03	12/27/16 09:20	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/23/16 09:03	12/27/16 09:20	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/23/16 09:03	12/27/16 09:20	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/23/16 09:03	12/27/16 09:20	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 09:20	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/23/16 09:03	12/27/16 09:20	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/23/16 09:03	12/27/16 09:20	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 09:20	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 09:20	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/23/16 09:03	12/27/16 09:20	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/23/16 09:03	12/27/16 09:20	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/23/16 09:03	12/27/16 09:20	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/23/16 09:03	12/27/16 09:20	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/23/16 09:03	12/27/16 09:20	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 09:20	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/23/16 09:03	12/27/16 09:20	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-260765/17-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	0.609	J	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/23/16 09:03	12/27/16 09:20	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/23/16 09:03	12/27/16 09:20	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/23/16 09:03	12/27/16 09:20	1
Di-n-butyl phthalate	0.794	J	1.0	0.40	ug/L		12/23/16 09:03	12/27/16 09:20	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/23/16 09:03	12/27/16 09:20	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/23/16 09:03	12/27/16 09:20	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/23/16 09:03	12/27/16 09:20	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 09:20	1
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 09:20	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/23/16 09:03	12/27/16 09:20	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/23/16 09:03	12/27/16 09:20	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/23/16 09:03	12/27/16 09:20	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/23/16 09:03	12/27/16 09:20	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/23/16 09:03	12/27/16 09:20	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/23/16 09:03	12/27/16 09:20	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/23/16 09:03	12/27/16 09:20	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/23/16 09:03	12/27/16 09:20	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/23/16 09:03	12/27/16 09:20	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 09:20	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/23/16 09:03	12/27/16 09:20	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/23/16 09:03	12/27/16 09:20	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 09:20	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/23/16 09:03	12/27/16 09:20	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/23/16 09:03	12/27/16 09:20	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/23/16 09:03	12/27/16 09:20	1
Phenol	1.0	U	1.0	0.15	ug/L		12/23/16 09:03	12/27/16 09:20	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/23/16 09:03	12/27/16 09:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*44 - 120*	*12/23/16 09:03*	*12/27/16 09:20*	*1*
2-Fluorophenol (Surr)	*58*		*26 - 120*	*12/23/16 09:03*	*12/27/16 09:20*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*36 - 120*	*12/23/16 09:03*	*12/27/16 09:20*	*1*
Nitrobenzene-d5 (Surr)	*68*		*44 - 120*	*12/23/16 09:03*	*12/27/16 09:20*	*1*
Phenol-d5 (Surr)	*35*		*16 - 120*	*12/23/16 09:03*	*12/27/16 09:20*	*1*
Terphenyl-d14 (Surr)	*75*		*43 - 120*	*12/23/16 09:03*	*12/27/16 09:20*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260765/18-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	28.7		ug/L		90	58 - 120
Acenaphthylene	32.0	28.9		ug/L		90	59 - 120
Acetophenone	32.0	31.4		ug/L		98	62 - 120
Aniline	32.0	32.3		ug/L		101	10 - 120
Anthracene	32.0	29.8		ug/L		93	58 - 120
Atrazine	32.0	33.3		ug/L		104	61 - 120
Benzaldehyde	32.0	33.7		ug/L		105	10 - 120
Benzo[a]anthracene	32.0	30.0		ug/L		94	58 - 120
Benzo[b]fluoranthene	32.0	32.8		ug/L		103	59 - 120
Benzo[k]fluoranthene	32.0	32.5		ug/L		102	61 - 120
Benzo[g,h,i]perylene	32.0	30.4		ug/L		95	41 - 127
Benzo[a]pyrene	32.0	34.0		ug/L		106	63 - 120
Butyl benzyl phthalate	32.0	27.6		ug/L		86	60 - 120
1,1'-Biphenyl	32.0	28.3		ug/L		89	53 - 120
Bis(2-chloroethoxy)methane	32.0	29.5		ug/L		92	63 - 120
Bis(2-chloroethyl)ether	32.0	27.9		ug/L		87	57 - 120
Bis(2-ethylhexyl) phthalate	32.0	31.6		ug/L		99	62 - 120
4-Bromophenyl phenyl ether	32.0	30.4		ug/L		95	55 - 120
Caprolactam	32.0	17.0		ug/L		53	10 - 120
Carbazole	32.0	30.9		ug/L		97	59 - 120
4-Chloroaniline	32.0	32.9		ug/L		103	10 - 120
4-Chloro-3-methylphenol	32.0	31.3		ug/L		98	59 - 120
2-Chloronaphthalene	32.0	28.5		ug/L		89	56 - 120
2-Chlorophenol	32.0	32.2		ug/L		101	62 - 120
4-Chlorophenyl phenyl ether	32.0	30.2		ug/L		94	57 - 120
Chrysene	32.0	29.1		ug/L		91	59 - 120
2-Methylnaphthalene	32.0	27.9		ug/L		87	57 - 120
3 & 4 Methylphenol	32.0	27.9		ug/L		87	53 - 120
Dibenz(a,h)anthracene	32.0	31.9		ug/L		100	39 - 125
Dibenzofuran	32.0	29.3		ug/L		92	58 - 120
3,3'-Dichlorobenzidine	64.0	68.0		ug/L		106	10 - 120
2,4-Dichlorophenol	32.0	28.8		ug/L		90	63 - 120
Diethyl phthalate	32.0	27.4		ug/L		86	64 - 120
2,4-Dimethylphenol	32.0	28.9		ug/L		90	41 - 120
Dimethyl phthalate	32.0	21.7		ug/L		68	63 - 120
4,6-Dinitro-2-methylphenol	64.0	53.7		ug/L		84	40 - 120
2,4-Dinitrophenol	64.0	45.5		ug/L		71	20 - 120
2,4-Dinitrotoluene	32.0	29.5		ug/L		92	62 - 120
Di-n-butyl phthalate	32.0	28.3		ug/L		88	58 - 120
Di-n-octyl phthalate	32.0	31.4		ug/L		98	58 - 128
Fluoranthene	32.0	29.8		ug/L		93	59 - 120
Fluorene	32.0	29.6		ug/L		92	57 - 120
Hexachlorobenzene	32.0	28.9		ug/L		90	48 - 120
Hexachlorobutadiene	32.0	25.2		ug/L		79	47 - 120
Hexachlorocyclopentadiene	32.0	19.7		ug/L		62	24 - 120
Hexachloroethane	32.0	24.0		ug/L		75	48 - 120
Indeno[1,2,3-cd]pyrene	32.0	32.6		ug/L		102	49 - 121
Isophorone	32.0	29.8		ug/L		93	66 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260765/18-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	32.0	31.2		ug/L		97	55 - 120
Naphthalene	32.0	27.7		ug/L		87	58 - 120
2-Nitroaniline	32.0	32.9		ug/L		103	62 - 120
3-Nitroaniline	32.0	50.6	E	ug/L		158	10 - 171
4-Nitroaniline	32.0	37.3		ug/L		117	32 - 132
Nitrobenzene	32.0	30.5		ug/L		95	63 - 120
2-Nitrophenol	32.0	31.7		ug/L		99	65 - 120
4-Nitrophenol	64.0	37.0		ug/L		58	18 - 120
N-Nitrosodiphenylamine	32.0	30.0		ug/L		94	54 - 120
N-Nitrosodi-n-propylamine	32.0	32.1		ug/L		100	63 - 120
2,2'-oxybis(1-chloropropane)	32.0	30.7		ug/L		96	61 - 120
Pentachlorophenol	64.0	40.4		ug/L		63	33 - 120
Phenanthrene	32.0	28.4		ug/L		89	57 - 120
Phenol	32.0	21.6		ug/L		68	21 - 120
Pyrene	32.0	29.7		ug/L		93	57 - 120
2,4,5-Trichlorophenol	32.0	28.3		ug/L		88	61 - 120
2,4,6-Trichlorophenol	32.0	31.0		ug/L		97	57 - 120
2,6-Dinitrotoluene	32.0	32.0		ug/L		100	63 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*99*		*44 - 120*
2-Fluorophenol (Surr)	*116*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*92*		*36 - 120*
Nitrobenzene-d5 (Surr)	*103*		*44 - 120*
Phenol-d5 (Surr)	*72*		*16 - 120*
Terphenyl-d14 (Surr)	*109*		*43 - 120*

Lab Sample ID: LCSD 240-260765/19-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260765

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	32.0	27.1		ug/L		85	58 - 120	6	35
Acenaphthylene	32.0	26.8		ug/L		84	59 - 120	8	35
Acetophenone	32.0	28.2		ug/L		88	62 - 120	11	35
Aniline	32.0	26.4		ug/L		83	10 - 120	20	35
Anthracene	32.0	30.9		ug/L		97	58 - 120	4	35
Atrazine	32.0	35.3		ug/L		110	61 - 120	6	35
Benzaldehyde	32.0	38.4		ug/L		120	10 - 120	13	35
Benzo[a]anthracene	32.0	31.7		ug/L		99	58 - 120	5	35
Benzo[b]fluoranthene	32.0	33.8		ug/L		106	59 - 120	3	35
Benzo[k]fluoranthene	32.0	33.4		ug/L		105	61 - 120	3	35
Benzo[g,h,i]perylene	32.0	31.1		ug/L		97	41 - 127	2	35
Benzo[a]pyrene	32.0	35.4		ug/L		110	63 - 120	4	35
Butyl benzyl phthalate	32.0	33.5		ug/L		105	60 - 120	20	35
1,1'-Biphenyl	32.0	27.0		ug/L		84	53 - 120	5	35
Bis(2-chloroethoxy)methane	32.0	28.6		ug/L		89	63 - 120	3	35
Bis(2-chloroethyl)ether	32.0	27.7		ug/L		86	57 - 120	1	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 240-260765/19-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260765

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	32.0	33.0		ug/L		103	62 - 120	4	35
4-Bromophenyl phenyl ether	32.0	29.8		ug/L		93	55 - 120	2	35
Caprolactam	32.0	15.7		ug/L		49	10 - 120	8	35
Carbazole	32.0	34.3		ug/L		107	59 - 120	10	35
4-Chloroaniline	32.0	33.6		ug/L		105	10 - 120	2	35
4-Chloro-3-methylphenol	32.0	28.5		ug/L		89	59 - 120	9	35
2-Chloronaphthalene	32.0	27.0		ug/L		85	56 - 120	5	35
2-Chlorophenol	32.0	26.4		ug/L		82	62 - 120	20	35
4-Chlorophenyl phenyl ether	32.0	28.6		ug/L		89	57 - 120	5	35
Chrysene	32.0	30.8		ug/L		96	59 - 120	6	35
2-Methylnaphthalene	32.0	27.5		ug/L		86	57 - 120	1	35
3 & 4 Methylphenol	32.0	24.0		ug/L		75	53 - 120	15	35
Dibenz(a,h)anthracene	32.0	32.9		ug/L		103	39 - 125	3	35
Dibenzofuran	32.0	27.4		ug/L		86	58 - 120	7	35
3,3'-Dichlorobenzidine	64.0	75.2		ug/L		118	10 - 120	10	35
2,4-Dichlorophenol	32.0	25.2		ug/L		79	63 - 120	13	35
Diethyl phthalate	32.0	31.7		ug/L		99	64 - 120	14	35
2,4-Dimethylphenol	32.0	25.7		ug/L		80	41 - 120	12	35
Dimethyl phthalate	32.0	30.4		ug/L		95	63 - 120	33	35
4,6-Dinitro-2-methylphenol	64.0	45.7		ug/L		71	40 - 120	16	35
2,4-Dinitrophenol	64.0	36.3	J	ug/L		57	20 - 120	23	35
2,4-Dinitrotoluene	32.0	29.8		ug/L		93	62 - 120	1	35
Di-n-butyl phthalate	32.0	31.5		ug/L		98	58 - 120	11	35
Di-n-octyl phthalate	32.0	32.4		ug/L		101	58 - 128	3	35
Fluoranthene	32.0	31.3		ug/L		98	59 - 120	5	35
Fluorene	32.0	28.0		ug/L		88	57 - 120	5	35
Hexachlorobenzene	32.0	28.7		ug/L		90	48 - 120	1	35
Hexachlorobutadiene	32.0	27.8		ug/L		87	47 - 120	10	35
Hexachlorocyclopentadiene	32.0	20.5		ug/L		64	24 - 120	4	35
Hexachloroethane	32.0	27.2		ug/L		85	48 - 120	12	35
Indeno[1,2,3-cd]pyrene	32.0	33.4		ug/L		104	49 - 121	2	35
Isophorone	32.0	30.1		ug/L		94	66 - 120	1	35
2-Methylphenol	32.0	26.6		ug/L		83	55 - 120	16	35
Naphthalene	32.0	27.5		ug/L		86	58 - 120	1	35
2-Nitroaniline	32.0	33.2		ug/L		104	62 - 120	1	35
3-Nitroaniline	32.0	58.8	* E	ug/L		184	10 - 171	15	35
4-Nitroaniline	32.0	38.2		ug/L		119	32 - 132	2	35
Nitrobenzene	32.0	29.1		ug/L		91	63 - 120	4	35
2-Nitrophenol	32.0	27.9		ug/L		87	65 - 120	13	35
4-Nitrophenol	64.0	33.2		ug/L		52	18 - 120	11	35
N-Nitrosodiphenylamine	32.0	29.9		ug/L		93	54 - 120	1	35
N-Nitrosodi-n-propylamine	32.0	29.8		ug/L		93	63 - 120	8	35
2,2'-oxybis(1-chloropropane)	32.0	28.3		ug/L		88	61 - 120	8	35
Pentachlorophenol	64.0	32.2	J	ug/L		50	33 - 120	23	35
Phenanthrene	32.0	28.8		ug/L		90	57 - 120	1	35
Phenol	32.0	19.1		ug/L		60	21 - 120	12	35
Pyrene	32.0	30.9		ug/L		97	57 - 120	4	35
2,4,5-Trichlorophenol	32.0	24.2		ug/L		76	61 - 120	15	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 240-260765/19-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260765

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,6-Trichlorophenol			32.0	27.1		ug/L		85	57 - 120	14	35
2,6-Dinitrotoluene			32.0	31.7		ug/L		99	63 - 120	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*93*		*44 - 120*
2-Fluorophenol (Surr)	*77*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*76*		*36 - 120*
Nitrobenzene-d5 (Surr)	*97*		*44 - 120*
Phenol-d5 (Surr)	*63*		*16 - 120*
Terphenyl-d14 (Surr)	*112*		*43 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-259840/1-A
Matrix: Water
Analysis Batch: 260158

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/16/16 14:00	12/20/16 01:52	1
Antimony	10	U	10	3.1	ug/L		12/16/16 14:00	12/20/16 01:52	1
Barium	200	U	200	2.4	ug/L		12/16/16 14:00	12/20/16 01:52	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/16/16 14:00	12/20/16 01:52	1
Calcium	5000	U	5000	710	ug/L		12/16/16 14:00	12/20/16 01:52	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/16/16 14:00	12/20/16 01:52	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/16/16 14:00	12/20/16 01:52	1
Chromium	5.0	U	5.0	0.55	ug/L		12/16/16 14:00	12/20/16 01:52	1
Copper	25	U	25	3.9	ug/L		12/16/16 14:00	12/20/16 01:52	1
Iron	100	U	100	25	ug/L		12/16/16 14:00	12/20/16 01:52	1
Potassium	5000	U	5000	70	ug/L		12/16/16 14:00	12/20/16 01:52	1
Magnesium	5000	U	5000	230	ug/L		12/16/16 14:00	12/20/16 01:52	1
Manganese	15	U	15	5.1	ug/L		12/16/16 14:00	12/20/16 01:52	1
Silver	5.0	U	5.0	0.92	ug/L		12/16/16 14:00	12/20/16 01:52	1
Sodium	339	J	5000	330	ug/L		12/16/16 14:00	12/20/16 01:52	1
Nickel	40	U	40	1.6	ug/L		12/16/16 14:00	12/20/16 01:52	1
Vanadium	10	U	10	4.4	ug/L		12/16/16 14:00	12/20/16 01:52	1
Zinc	50	U	50	16	ug/L		12/16/16 14:00	12/20/16 01:52	1
Arsenic	10	U	10	3.3	ug/L		12/16/16 14:00	12/20/16 01:52	1
Lead	5.0	U	5.0	1.9	ug/L		12/16/16 14:00	12/20/16 01:52	1
Selenium	15	U	15	5.1	ug/L		12/16/16 14:00	12/20/16 01:52	1
Thallium	10	U	10	2.1	ug/L		12/16/16 14:00	12/20/16 01:52	1
Tin	100	U	100	1.8	ug/L		12/16/16 14:00	12/20/16 01:52	1

Lab Sample ID: LCS 240-259840/2-A
Matrix: Water
Analysis Batch: 260158

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259840

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum			2000	2010		ug/L		101	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-259840/2-A
Matrix: Water
Analysis Batch: 260158

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	496		ug/L		99	80 - 120
Barium	2000	1940		ug/L		97	80 - 120
Beryllium	50.0	48.3		ug/L		97	80 - 120
Calcium	50000	48300		ug/L		97	80 - 120
Cadmium	50.0	49.6		ug/L		99	80 - 120
Cobalt	500	466		ug/L		93	80 - 120
Chromium	200	187		ug/L		94	80 - 120
Copper	250	230		ug/L		92	80 - 120
Iron	1000	969		ug/L		97	80 - 120
Potassium	50000	49500		ug/L		99	80 - 120
Magnesium	50000	48000		ug/L		96	80 - 120
Manganese	500	467		ug/L		93	80 - 120
Silver	50.0	46.8		ug/L		94	80 - 120
Sodium	50000	50800		ug/L		102	80 - 120
Nickel	500	477		ug/L		95	80 - 120
Vanadium	500	472		ug/L		94	80 - 120
Zinc	500	485		ug/L		97	80 - 120
Arsenic	2000	2010		ug/L		100	80 - 120
Lead	500	470		ug/L		94	80 - 120
Selenium	2000	2030		ug/L		101	80 - 120
Thallium	2000	1910		ug/L		95	80 - 120
Tin	2000	1940		ug/L		97	80 - 120

Lab Sample ID: 240-73378-1 MS
Matrix: Water
Analysis Batch: 260158

Client Sample ID: 20161213UAW21-30V27N
Prep Type: Total Recoverable
Prep Batch: 259840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200	U	2000	2140		ug/L		107	75 - 125
Antimony	10	U	500	531		ug/L		106	75 - 125
Barium	71	J	2000	2120		ug/L		102	75 - 125
Beryllium	5.0	U	50.0	51.2		ug/L		102	75 - 125
Calcium	100000		50000	154000		ug/L		101	75 - 125
Cadmium	2.0	U	50.0	52.4		ug/L		105	75 - 125
Cobalt	6.2	J	500	501		ug/L		99	75 - 125
Chromium	300		200	500		ug/L		100	75 - 125
Copper	8.3	J	250	250		ug/L		97	75 - 125
Iron	3200		1000	4250		ug/L		102	75 - 125
Potassium	2700	J	50000	55200		ug/L		105	75 - 125
Magnesium	27000		50000	76600		ug/L		100	75 - 125
Manganese	63		500	549		ug/L		97	75 - 125
Silver	5.0	U	50.0	48.7		ug/L		97	75 - 125
Sodium	39000	B	50000	93100		ug/L		108	75 - 125
Nickel	220		500	730		ug/L		102	75 - 125
Vanadium	10	U	500	498		ug/L		100	75 - 125
Zinc	50	U	500	507		ug/L		101	75 - 125
Arsenic	10	U	2000	2140		ug/L		107	75 - 125
Lead	5.0	U	500	487		ug/L		97	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-73378-1 MS
Matrix: Water
Analysis Batch: 260158

Client Sample ID: 20161213UAW21-30V27N
Prep Type: Total Recoverable
Prep Batch: 259840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	15	U	2000	2140		ug/L		107	75 - 125
Thallium	2.1	J	2000	2000		ug/L		100	75 - 125
Tin	100	U	2000	2080		ug/L		104	75 - 125

Lab Sample ID: 240-73378-1 MSD
Matrix: Water
Analysis Batch: 260158

Client Sample ID: 20161213UAW21-30V27N
Prep Type: Total Recoverable
Prep Batch: 259840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	200	U	2000	2050		ug/L		102	75 - 125	4	20
Antimony	10	U	500	522		ug/L		104	75 - 125	2	20
Barium	71	J	2000	2040		ug/L		98	75 - 125	4	20
Beryllium	5.0	U	50.0	48.6		ug/L		97	75 - 125	5	20
Calcium	100000		50000	149000		ug/L		90	75 - 125	4	20
Cadmium	2.0	U	50.0	51.1		ug/L		102	75 - 125	2	20
Cobalt	6.2	J	500	484		ug/L		96	75 - 125	3	20
Chromium	300		200	475		ug/L		88	75 - 125	5	20
Copper	8.3	J	250	243		ug/L		94	75 - 125	3	20
Iron	3200		1000	4090		ug/L		86	75 - 125	4	20
Potassium	2700	J	50000	53000		ug/L		101	75 - 125	4	20
Magnesium	27000		50000	74200		ug/L		95	75 - 125	3	20
Manganese	63		500	534		ug/L		94	75 - 125	3	20
Silver	5.0	U	50.0	47.3		ug/L		95	75 - 125	3	20
Sodium	39000	B	50000	89600		ug/L		100	75 - 125	4	20
Nickel	220		500	704		ug/L		97	75 - 125	4	20
Vanadium	10	U	500	489		ug/L		98	75 - 125	2	20
Zinc	50	U	500	490		ug/L		98	75 - 125	3	20
Arsenic	10	U	2000	2070		ug/L		103	75 - 125	3	20
Lead	5.0	U	500	472		ug/L		94	75 - 125	3	20
Selenium	15	U	2000	2070		ug/L		104	75 - 125	3	20
Thallium	2.1	J	2000	1940		ug/L		97	75 - 125	3	20
Tin	100	U	2000	2000		ug/L		100	75 - 125	4	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-259846/1-A
Matrix: Water
Analysis Batch: 260145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/16/16 14:00	12/17/16 11:33	1

Lab Sample ID: LCS 240-259846/2-A
Matrix: Water
Analysis Batch: 260145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.67		ug/L		93	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 240-73378-1 MS
Matrix: Water
Analysis Batch: 260145

Client Sample ID: 20161213UAW21-30V27N
Prep Type: Total/NA
Prep Batch: 259846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	1.01		ug/L		101	80 - 120

Lab Sample ID: 240-73378-1 MSD
Matrix: Water
Analysis Batch: 260145

Client Sample ID: 20161213UAW21-30V27N
Prep Type: Total/NA
Prep Batch: 259846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.03		ug/L		103	80 - 120	2	20

QC Association Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

GC/MS VOA

Analysis Batch: 260434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-1	20161213UAW21-30V27N	Total/NA	Water	8260B	
240-73378-2	20161213MW-EPA-1V14N	Total/NA	Water	8260B	
240-73378-3	20161213CINRB-1	Total/NA	Water	8260B	
240-73378-4	20161214UAW17-40V36N	Total/NA	Water	8260B	
240-73378-5	20161214UAW20-60V56N	Total/NA	Water	8260B	
240-73378-5	20161214UAW20-60V56N	Total/NA	Water	8260B	
240-73378-6	20161214UAW20-60V56FD	Total/NA	Water	8260B	
240-73378-6	20161214UAW20-60V56FD	Total/NA	Water	8260B	
240-73378-7	20161213UAW23-20V23N	Total/NA	Water	8260B	
240-73378-8	20161213UAW21-80V72N	Total/NA	Water	8260B	
240-73378-9	20161214UAW14-10V12N	Total/NA	Water	8260B	
240-73378-10	20161214MW-EPA-2V16N	Total/NA	Water	8260B	
240-73378-11	TRIP BLANK	Total/NA	Water	8260B	
MB 240-260434/7	Method Blank	Total/NA	Water	8260B	
LCS 240-260434/4	Lab Control Sample	Total/NA	Water	8260B	
240-73378-2 MS	20161213MW-EPA-1V14N	Total/NA	Water	8260B	
240-73378-2 MSD	20161213MW-EPA-1V14N	Total/NA	Water	8260B	

Analysis Batch: 260596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-2	20161213MW-EPA-1V14N	Total/NA	Water	8260B	
240-73378-10	20161214MW-EPA-2V16N	Total/NA	Water	8260B	
MB 240-260596/7	Method Blank	Total/NA	Water	8260B	
LCS 240-260596/4	Lab Control Sample	Total/NA	Water	8260B	
240-73351-E-1 MS	Matrix Spike	Total/NA	Water	8260B	
240-73351-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 260234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-1	20161213UAW21-30V27N	Total/NA	Water	3510C	
240-73378-2	20161213MW-EPA-1V14N	Total/NA	Water	3510C	
240-73378-3	20161213CINRB-1	Total/NA	Water	3510C	
240-73378-4	20161214UAW17-40V36N	Total/NA	Water	3510C	
240-73378-5	20161214UAW20-60V56N	Total/NA	Water	3510C	
240-73378-6	20161214UAW20-60V56FD	Total/NA	Water	3510C	
240-73378-7	20161213UAW23-20V23N	Total/NA	Water	3510C	
240-73378-8	20161213UAW21-80V72N	Total/NA	Water	3510C	
240-73378-9	20161214UAW14-10V12N	Total/NA	Water	3510C	
240-73378-10	20161214MW-EPA-2V16N	Total/NA	Water	3510C	
MB 240-260234/16-A	Method Blank	Total/NA	Water	3510C	
LCS 240-260234/17-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-260234/18-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 260556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-1	20161213UAW21-30V27N	Total/NA	Water	8270C	260234
240-73378-3	20161213CINRB-1	Total/NA	Water	8270C	260234
MB 240-260234/16-A	Method Blank	Total/NA	Water	8270C	260234

GC/MS Semi VOA (Continued)

Analysis Batch: 260556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-260234/17-A	Lab Control Sample	Total/NA	Water	8270C	260234
LCSD 240-260234/18-A	Lab Control Sample Dup	Total/NA	Water	8270C	260234

Analysis Batch: 260723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-2	20161213MW-EPA-1V14N	Total/NA	Water	8270C	260234
240-73378-4	20161214UAW17-40V36N	Total/NA	Water	8270C	260234
240-73378-5	20161214UAW20-60V56N	Total/NA	Water	8270C	260234
240-73378-6	20161214UAW20-60V56FD	Total/NA	Water	8270C	260234
240-73378-7	20161213UAW23-20V23N	Total/NA	Water	8270C	260234
240-73378-8	20161213UAW21-80V72N	Total/NA	Water	8270C	260234
240-73378-9	20161214UAW14-10V12N	Total/NA	Water	8270C	260234
240-73378-10	20161214MW-EPA-2V16N	Total/NA	Water	8270C	260234

Prep Batch: 260765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-1 - RE	20161213UAW21-30V27N	Total/NA	Water	3510C	
240-73378-2 - RE	20161213MW-EPA-1V14N	Total/NA	Water	3510C	
240-73378-3 - RE	20161213CINRB-1	Total/NA	Water	3510C	
240-73378-4 - RE	20161214UAW17-40V36N	Total/NA	Water	3510C	
240-73378-5 - RE	20161214UAW20-60V56N	Total/NA	Water	3510C	
240-73378-6 - RE	20161214UAW20-60V56FD	Total/NA	Water	3510C	
240-73378-7 - RE	20161213UAW23-20V23N	Total/NA	Water	3510C	
240-73378-8 - RE	20161213UAW21-80V72N	Total/NA	Water	3510C	
240-73378-9 - RE	20161214UAW14-10V12N	Total/NA	Water	3510C	
240-73378-10 - RE	20161214MW-EPA-2V16N	Total/NA	Water	3510C	
MB 240-260765/17-A	Method Blank	Total/NA	Water	3510C	
LCS 240-260765/18-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-260765/19-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 260891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-1 - RE	20161213UAW21-30V27N	Total/NA	Water	8270C	260765
240-73378-2 - RE	20161213MW-EPA-1V14N	Total/NA	Water	8270C	260765
240-73378-3 - RE	20161213CINRB-1	Total/NA	Water	8270C	260765
240-73378-4 - RE	20161214UAW17-40V36N	Total/NA	Water	8270C	260765
240-73378-6 - RE	20161214UAW20-60V56FD	Total/NA	Water	8270C	260765
240-73378-8 - RE	20161213UAW21-80V72N	Total/NA	Water	8270C	260765
240-73378-9 - RE	20161214UAW14-10V12N	Total/NA	Water	8270C	260765
240-73378-10 - RE	20161214MW-EPA-2V16N	Total/NA	Water	8270C	260765
MB 240-260765/17-A	Method Blank	Total/NA	Water	8270C	260765
LCS 240-260765/18-A	Lab Control Sample	Total/NA	Water	8270C	260765
LCSD 240-260765/19-A	Lab Control Sample Dup	Total/NA	Water	8270C	260765

Analysis Batch: 261056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-5 - RE	20161214UAW20-60V56N	Total/NA	Water	8270C	260765
240-73378-7 - RE	20161213UAW23-20V23N	Total/NA	Water	8270C	260765

Metals

Prep Batch: 259840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-1	20161213UAW21-30V27N	Total Recoverable	Water	3005A	
240-73378-2	20161213MW-EPA-1V14N	Total Recoverable	Water	3005A	
240-73378-3	20161213CINRB-1	Total Recoverable	Water	3005A	
240-73378-4	20161214UAW17-40V36N	Total Recoverable	Water	3005A	
240-73378-5	20161214UAW20-60V56N	Total Recoverable	Water	3005A	
240-73378-6	20161214UAW20-60V56FD	Total Recoverable	Water	3005A	
240-73378-7	20161213UAW23-20V23N	Total Recoverable	Water	3005A	
240-73378-8	20161213UAW21-80V72N	Total Recoverable	Water	3005A	
240-73378-9	20161214UAW14-10V12N	Total Recoverable	Water	3005A	
240-73378-10	20161214MW-EPA-2V16N	Total Recoverable	Water	3005A	
MB 240-259840/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-259840/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-73378-1 MS	20161213UAW21-30V27N	Total Recoverable	Water	3005A	
240-73378-1 MSD	20161213UAW21-30V27N	Total Recoverable	Water	3005A	

Prep Batch: 259846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-1	20161213UAW21-30V27N	Total/NA	Water	7470A	
240-73378-2	20161213MW-EPA-1V14N	Total/NA	Water	7470A	
240-73378-3	20161213CINRB-1	Total/NA	Water	7470A	
240-73378-4	20161214UAW17-40V36N	Total/NA	Water	7470A	
240-73378-5	20161214UAW20-60V56N	Total/NA	Water	7470A	
240-73378-6	20161214UAW20-60V56FD	Total/NA	Water	7470A	
240-73378-7	20161213UAW23-20V23N	Total/NA	Water	7470A	
240-73378-8	20161213UAW21-80V72N	Total/NA	Water	7470A	
240-73378-9	20161214UAW14-10V12N	Total/NA	Water	7470A	
240-73378-10	20161214MW-EPA-2V16N	Total/NA	Water	7470A	
MB 240-259846/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-259846/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-73378-1 MS	20161213UAW21-30V27N	Total/NA	Water	7470A	
240-73378-1 MSD	20161213UAW21-30V27N	Total/NA	Water	7470A	

Analysis Batch: 260145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-1	20161213UAW21-30V27N	Total/NA	Water	7470A	259846
240-73378-2	20161213MW-EPA-1V14N	Total/NA	Water	7470A	259846
240-73378-3	20161213CINRB-1	Total/NA	Water	7470A	259846
240-73378-4	20161214UAW17-40V36N	Total/NA	Water	7470A	259846
240-73378-5	20161214UAW20-60V56N	Total/NA	Water	7470A	259846
240-73378-6	20161214UAW20-60V56FD	Total/NA	Water	7470A	259846
240-73378-7	20161213UAW23-20V23N	Total/NA	Water	7470A	259846
240-73378-8	20161213UAW21-80V72N	Total/NA	Water	7470A	259846
240-73378-9	20161214UAW14-10V12N	Total/NA	Water	7470A	259846
240-73378-10	20161214MW-EPA-2V16N	Total/NA	Water	7470A	259846
MB 240-259846/1-A	Method Blank	Total/NA	Water	7470A	259846
LCS 240-259846/2-A	Lab Control Sample	Total/NA	Water	7470A	259846
240-73378-1 MS	20161213UAW21-30V27N	Total/NA	Water	7470A	259846
240-73378-1 MSD	20161213UAW21-30V27N	Total/NA	Water	7470A	259846

Metals (Continued)

Analysis Batch: 260158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-1	20161213UAW21-30V27N	Total Recoverable	Water	6010B	259840
240-73378-2	20161213MW-EPA-1V14N	Total Recoverable	Water	6010B	259840
240-73378-3	20161213CINRB-1	Total Recoverable	Water	6010B	259840
240-73378-4	20161214UAW17-40V36N	Total Recoverable	Water	6010B	259840
240-73378-5	20161214UAW20-60V56N	Total Recoverable	Water	6010B	259840
240-73378-6	20161214UAW20-60V56FD	Total Recoverable	Water	6010B	259840
240-73378-7	20161213UAW23-20V23N	Total Recoverable	Water	6010B	259840
240-73378-8	20161213UAW21-80V72N	Total Recoverable	Water	6010B	259840
240-73378-9	20161214UAW14-10V12N	Total Recoverable	Water	6010B	259840
240-73378-10	20161214MW-EPA-2V16N	Total Recoverable	Water	6010B	259840
MB 240-259840/1-A	Method Blank	Total Recoverable	Water	6010B	259840
LCS 240-259840/2-A	Lab Control Sample	Total Recoverable	Water	6010B	259840
240-73378-1 MS	20161213UAW21-30V27N	Total Recoverable	Water	6010B	259840
240-73378-1 MSD	20161213UAW21-30V27N	Total Recoverable	Water	6010B	259840

Analysis Batch: 260478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-10	20161214MW-EPA-2V16N	Total Recoverable	Water	6010B	259840

Analysis Batch: 261091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73378-2	20161213MW-EPA-1V14N	Total Recoverable	Water	6010B	259840

Lab Chronicle

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Client Sample ID: 20161213UAW21-30V27N

Lab Sample ID: 240-73378-1
Matrix: Water
Date Collected: 12/13/16 12:10
Date Received: 12/15/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260434	12/21/16 15:55	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		1	260556	12/22/16 17:50	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	1	260891	12/27/16 11:22	TMH	TAL CAN
Total Recoverable	Prep	3005A			259840	12/16/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260158	12/20/16 02:01	RKT	TAL CAN
Total/NA	Prep	7470A			259846	12/16/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260145	12/17/16 11:37	DSH	TAL CAN

Client Sample ID: 20161213MW-EPA-1V14N

Lab Sample ID: 240-73378-2
Matrix: Water
Date Collected: 12/13/16 15:45
Date Received: 12/15/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	260434	12/21/16 15:33	LEE	TAL CAN
Total/NA	Analysis	8260B		2000	260596	12/22/16 11:34	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		5	260723	12/23/16 15:20	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	5	260891	12/27/16 15:02	TMH	TAL CAN
Total Recoverable	Prep	3005A			259840	12/16/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260158	12/20/16 03:17	RKT	TAL CAN
Total Recoverable	Prep	3005A			259840	12/16/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		5	261091	12/27/16 20:47	RKT	TAL CAN
Total/NA	Prep	7470A			259846	12/16/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260145	12/17/16 12:05	DSH	TAL CAN

Client Sample ID: 20161213CINRB-1

Lab Sample ID: 240-73378-3
Matrix: Water
Date Collected: 12/13/16 08:00
Date Received: 12/15/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260434	12/21/16 16:18	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		1	260556	12/22/16 18:14	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	1	260891	12/27/16 11:46	TMH	TAL CAN
Total Recoverable	Prep	3005A			259840	12/16/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260158	12/20/16 03:22	RKT	TAL CAN
Total/NA	Prep	7470A			259846	12/16/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260145	12/17/16 12:07	DSH	TAL CAN

Client Sample ID: 20161214UAW17-40V36N — Lab Sample ID: 240-73378-4

Date Collected: 12/14/16 11:45 — **Matrix: Water**
Date Received: 12/15/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260434	12/21/16 16:40	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		1	260723	12/23/16 12:05	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	1	260891	12/27/16 12:11	TMH	TAL CAN
Total Recoverable	Prep	3005A			259840	12/16/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260158	12/20/16 03:26	RKT	TAL CAN
Total/NA	Prep	7470A			259846	12/16/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260145	12/17/16 12:13	DSH	TAL CAN

Client Sample ID: 20161214UAW20-60V56N — Lab Sample ID: 240-73378-5

Date Collected: 12/14/16 14:15 — **Matrix: Water**
Date Received: 12/15/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2.5	260434	12/21/16 17:03	LEE	TAL CAN
Total/NA	Analysis	8260B		1	260434	12/21/16 21:12	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		1	260723	12/23/16 12:54	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	1	261056	12/28/16 09:41	TMH	TAL CAN
Total Recoverable	Prep	3005A			259840	12/16/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260158	12/20/16 03:30	RKT	TAL CAN
Total/NA	Prep	7470A			259846	12/16/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260145	12/17/16 12:15	DSH	TAL CAN

Client Sample ID: 20161214UAW20-60V56FD — Lab Sample ID: 240-73378-6

Date Collected: 12/14/16 14:15 — **Matrix: Water**
Date Received: 12/15/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2.5	260434	12/21/16 17:26	LEE	TAL CAN
Total/NA	Analysis	8260B		1	260434	12/21/16 21:35	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		1	260723	12/23/16 13:18	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	1	260891	12/27/16 13:00	TMH	TAL CAN
Total Recoverable	Prep	3005A			259840	12/16/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260158	12/20/16 03:35	RKT	TAL CAN
Total/NA	Prep	7470A			259846	12/16/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260145	12/17/16 12:17	DSH	TAL CAN

Lab Chronicle

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Client Sample ID: 20161213UAW23-20V23N — Lab Sample ID: 240-73378-7

Date Collected: 12/13/16 17:10 — **Matrix: Water**
Date Received: 12/15/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260434	12/21/16 17:49	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		1	260723	12/23/16 13:42	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	1	261056	12/28/16 10:05	TMH	TAL CAN
Total Recoverable	Prep	3005A			259840	12/16/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260158	12/20/16 03:39	RKT	TAL CAN
Total/NA	Prep	7470A			259846	12/16/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260145	12/17/16 12:19	DSH	TAL CAN

Client Sample ID: 20161213UAW21-80V72N — Lab Sample ID: 240-73378-8

Date Collected: 12/13/16 12:10 — **Matrix: Water**
Date Received: 12/15/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260434	12/21/16 18:11	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		1	260723	12/23/16 14:07	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	1	260891	12/27/16 13:49	TMH	TAL CAN
Total Recoverable	Prep	3005A			259840	12/16/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260158	12/20/16 03:44	RKT	TAL CAN
Total/NA	Prep	7470A			259846	12/16/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260145	12/17/16 12:21	DSH	TAL CAN

Client Sample ID: 20161214UAW14-10V12N — Lab Sample ID: 240-73378-9

Date Collected: 12/14/16 11:35 — **Matrix: Water**
Date Received: 12/15/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260434	12/21/16 18:34	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		1	260723	12/23/16 14:31	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	1	260891	12/27/16 14:13	TMH	TAL CAN
Total Recoverable	Prep	3005A			259840	12/16/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260158	12/20/16 03:48	RKT	TAL CAN
Total/NA	Prep	7470A			259846	12/16/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260145	12/17/16 12:23	DSH	TAL CAN

Lab Chronicle

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Client Sample ID: 20161214MW-EPA-2V16N

Lab Sample ID: 240-73378-10

Date Collected: 12/14/16 14:15

Matrix: Water

Date Received: 12/15/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260434	12/21/16 18:57	LEE	TAL CAN
Total/NA	Analysis	8260B		2	260596	12/22/16 11:57	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		1	260723	12/23/16 14:56	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	1	260891	12/27/16 14:37	TMH	TAL CAN
Total Recoverable	Prep	3005A			259840	12/16/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260158	12/20/16 04:01	RKT	TAL CAN
Total Recoverable	Prep	3005A			259840	12/16/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		10	260478	12/21/16 16:45	KLC	TAL CAN
Total/NA	Prep	7470A			259846	12/16/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260145	12/17/16 12:25	DSH	TAL CAN

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-73378-11

Date Collected: 12/13/16 00:00

Matrix: Water

Date Received: 12/15/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260434	12/21/16 19:20	LEE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Parsons Corporation
Project/Site: R & H Cincinnati - GW Sampling

TestAmerica Job ID: 240-73378-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17
Illinois	NELAP	5	200004	07-31-17
Kansas	NELAP	7	E-10336	01-31-17 *
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16 *
Minnesota	NELAP	5	039-999-348	12-31-16 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17
Nevada	State Program	9	OH-000482008A	07-31-17
New Jersey	NELAP	2	OH001	06-30-17
New York	NELAP	2	10975	03-31-17
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17
Pennsylvania	NELAP	3	68-00340	08-31-17
Texas	NELAP	6	T104704517-15-5	08-31-17
USDA	Federal		P330-13-00319	11-26-16 *
Virginia	NELAP	3	460175	09-14-17
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16 *
Wisconsin	State Program	5	999518190	08-31-17

* Certification renewal pending - certification considered valid.

0.6|C0.C 1.0|C1.6

CINCINNATI

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

210501

Client Information	Sampler: MORGAN TODD	Lab PM: O'Meara, Patrick J	Carrier Tracking No(s):	COC No: 240-39036-17141.7
Client Contact: Jim Shaw	Phone:	E-Mail: patrick.omeara@testamericainc.com		Page: Page 7 of 10
Company: Parsons Corporation				Job #:
Address: 2443 Crowne Point Drive	Due Date Requested:			
City: Cincinnati	TAT Requested (days): STANDARD			
State, Zip: OH, 45241				
Phone: 513-317-2984(Tel)	PO #: 4500814287			
Email: Jim.Shaw@parsons.com	WO #:			
Project Name: R & H Cincinnati - GW Sampling	Project #: 24009047			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

240-73378 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	6010B, 7470A	8270C - BNAs TCL / APP-IX /Aniline	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N		
20161213UAW21-30V27N	12/13/16	1210	G	Water	N	N	X	X	X		
20161213MW-EPA-1V14N	12/13/16	1545	G	Water	N	N	X	X	X		
20161213CINRB-1	12/13/16	800	G	Water	N	N	X	X	X		
20161214UAW17-40V3LN	12/14/16	1145	G	Water	N	N	X	X	X		
20161214UAW20-60V56N	12/14/16	1415	G	Water	N	N	X	X	X		
20161214UAW20-60V56FD	12/14/16	1415	G	Water	N	N	X	X	X		
20161213UAW23-20V23N	12/13/16	1710	G	Water	N	N	X	X	X		
20161213UAW21-80V72N	12/13/16	1210	G	Water	N	N	X	X	X		
20161214UAW14-10V12N	12/14/16	1135	G	Water	N	N	X	X	X		
20161214MW-EPA-2V16N	12/14/16	1415	G	Water	N	N	X	X	X		
MS/MSD TRIP BLANK	LAB	LAB	G	Water	N	N	X				

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12/14/16 1524	PARSONS		12/14/16 1524	TAI
2		12/14/16 1524			12-15-16 8:00	TAC
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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12/29/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 73378**

Canton Facility

Client PARSONS CORP Site Name -

Cooler Received on 12-15-16 Opened on 12-15-16

Cooler unpacked by: ROP

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other CLIPPER

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☒ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
   IR GUN #36 (CF +1.1°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? Yes (No)
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No
7. Did all bottles arrive in good condition (Unbroken)? Yes (No)
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Are these work share samples? Yes (No)
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? (Yes) No NA pH Strip Lot# **HC682547**
12. Were VOAs on the COC? (Yes) No
13. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 370 (Yes) No
15. Was a LL Hg or Me Hg trip blank present? _____ Yes (No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

RECIEVED 1 VOA TRIP BLANK BROKEN

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica Multiple Cooler Receipt Form/Narrative
Canton Facility

Login # : 73378

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
CLIENT	IR6	0.6	0.6	ICE
		1.0	1.0	

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
20161213UAW21-30V27N	240-73378-F-1	Plastic 500ml - with Nitric Acid	<2		
20161213MW-EPA-1V14N	240-73378-F-2	Plastic 500ml - with Nitric Acid	<2		
20161213CINRB-1	240-73378-F-3	Plastic 500ml - with Nitric Acid	<2		
20161214UAW17-40V36N	240-73378-F-4	Plastic 500ml - with Nitric Acid	<2		
20161214UAW20-60V56N	240-73378-F-5	Plastic 500ml - with Nitric Acid	<2		
20161214UAW20-60V56FD	240-73378-F-6	Plastic 500ml - with Nitric Acid	<2		
20161213UAW23-20V23N	240-73378-F-7	Plastic 500ml - with Nitric Acid	<2		
20161213UAW21-80V72N	240-73378-F-8	Plastic 500ml - with Nitric Acid	<2		
20161214UAW14-10V12N	240-73378-F-9	Plastic 500ml - with Nitric Acid	<2		
20161214MW-EPA-2V16N	240-73378-F-10	Plastic 500ml - with Nitric Acid	<2		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-73513-1
Client Project/Site: DOW Cincinnati - GW Sampling

For:
Parsons Corporation
2443 Crowne Point Drive
Cincinnati, Ohio 45241

Attn: Karen Fields

Patrick O'Meara

Authorized for release by:
12/29/2016 4:53:34 PM

Patrick O'Meara, Manager of Project Management
(330)966-5725
patrick.omeara@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

RELEASED
DATE 6-28-17
RIN #2017-007322
INITIALS

Job ID: 240-73513-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Parsons Corporation

Project: DOW Cincinnati - GW Sampling

Report Number: 240-73513-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/17/2016 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.6° C and 1.4° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 20161214UAW10-50V50N (240-73513-1), 20161214UAW22-20V16N (240-73513-2), 20161215UAW24-70V68N (240-73513-3), 20161215UAW10-80V77N (240-73513-4), 20161214MW-EPA-3V14N (240-73513-5), 20161214UAW18-20V15N (240-73513-6), 20161215UAW27-50V43N (240-73513-7), 20161215UAW19-80V74N (240-73513-8), 20161215CINRB-2 (240-73513-9) and TRIP BLANK (240-73513-10) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 12/27/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Samples 20161214UAW10-50V50N (240-73513-1), 20161214UAW22-20V16N (240-73513-2), 20161215UAW24-70V68N (240-73513-3), 20161215UAW10-80V77N (240-73513-4), 20161214MW-EPA-3V14N (240-73513-5), 20161214UAW18-20V15N (240-73513-6), 20161215UAW27-50V43N (240-73513-7), 20161215UAW19-80V74N (240-73513-8) and 20161215CINRB-2 (240-73513-9) were analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/20/2016, 12/22/2016 and 12/23/2016 and analyzed on 12/23/2016, 12/27/2016 and 12/28/2016.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and

Job ID: 240-73513-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

no corrective action is required.

Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates, per fraction, to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: 20161214UAW22-20V16N (240-73513-2) and 20161214MW-EPA-3V14N (240-73513-5). These results have been reported and qualified.

2,4,6-Tribromophenol (Surr) and 2-Fluorophenol (Surr) failed the surrogate recovery criteria low for 20161214UAW22-20V16N (240-73513-2) (re-extract). Insufficient sample was available to reprepare the sample and confirm matrix effect.

Diethyl phthalate and Di-n-butyl phthalate were detected in method blank MB 240-260765/17-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Diethyl phthalate and Dimethyl phthalate failed the recovery criteria low for LCS 240-260234/17-A. Butyl benzyl phthalate, Diethyl phthalate and Dimethyl phthalate failed the recovery criteria low for LCSD 240-260234/18-A. The associated samples were re-prepared and re-analyzed outside holding time. Both sets of data have been reported.

The laboratory control sample (LCS) for preparation batch 240-260580 recovered outside control limits for Benzaldehyde This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample duplicate (LCSD) for preparation batch 260765 recovered outside control limits for 3-Nitroaniline. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batches 240-260234, 240-260580, and 240-260765.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICP)

Samples 20161214UAW10-50V50N (240-73513-1), 20161214UAW22-20V16N (240-73513-2), 20161215UAW24-70V68N (240-73513-3), 20161215UAW10-80V77N (240-73513-4), 20161214MW-EPA-3V14N (240-73513-5), 20161214UAW18-20V15N (240-73513-6), 20161215UAW27-50V43N (240-73513-7), 20161215UAW19-80V74N (240-73513-8) and 20161215CINRB-2 (240-73513-9) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/19/2016 and analyzed on 12/21/2016 and 12/27/2016.

Sodium was detected in method blank MB 240-260113/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Sample 20161214UAW22-20V16N (240-73513-2)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples 20161214UAW10-50V50N (240-73513-1), 20161214UAW22-20V16N (240-73513-2), 20161215UAW24-70V68N (240-73513-3), 20161215UAW10-80V77N (240-73513-4), 20161214MW-EPA-3V14N (240-73513-5), 20161214UAW18-20V15N (240-73513-6), 20161215UAW27-50V43N (240-73513-7), 20161215UAW19-80V74N (240-73513-8) and 20161215CINRB-2 (240-73513-9) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/19/2016 and analyzed on 12/20/2016.

Mercury was detected in method blank MB 240-260121/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-73513-1	20161214UAW10-50V50N	Water	12/14/16 16:30	12/17/16 08:00
240-73513-2	20161214UAW22-20V16N	Water	12/14/16 17:15	12/17/16 08:00
240-73513-3	20161215UAW24-70V68N	Water	12/15/16 10:50	12/17/16 08:00
240-73513-4	20161215UAW10-80V77N	Water	12/15/16 14:50	12/17/16 08:00
240-73513-5	20161214MW-EPA-3V14N	Water	12/14/16 16:15	12/17/16 08:00
240-73513-6	20161214UAW18-20V15N	Water	12/14/16 17:45	12/17/16 08:00
240-73513-7	20161215UAW27-50V43N	Water	12/15/16 10:45	12/17/16 08:00
240-73513-8	20161215UAW19-80V74N	Water	12/15/16 14:50	12/17/16 08:00
240-73513-9	20161215CINRB-2	Water	12/15/16 17:00	12/17/16 08:00
240-73513-10	TRIP BLANK	Water	12/14/16 00:00	12/17/16 08:00

Detection Summary

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Client Sample ID: 20161214UAW10-50V50N — Lab Sample ID: 240-73513-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	4.4		1.0	0.31	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.6		1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.8		1.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.38	J	1.0	0.30	ug/L	1		8260B	Total/NA
Tetrachloroethene	5.0		1.0	0.30	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.29	J	1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	1.0		1.0	0.23	ug/L	1		8260B	Total/NA
Trichloroethene	1.2		1.0	0.33	ug/L	1		8260B	Total/NA
Di-n-butyl phthalate	0.52	J	1.0	0.40	ug/L	1		8270C	Total/NA
Diethyl phthalate - RE	0.54	J H B	1.0	0.13	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate - RE	0.71	J H B	1.0	0.41	ug/L	1		8270C	Total/NA
Aluminum	200		200	40	ug/L	1		6010B	Total Recoverable
Barium	41	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	160000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	0.67	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	4.1	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	240		100	25	ug/L	1		6010B	Total Recoverable
Potassium	1800	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	50000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	190		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	35000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	3.7	J	40	1.6	ug/L	1		6010B	Total Recoverable
Lead	2.4	J	5.0	1.9	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161214UAW22-20V16N — Lab Sample ID: 240-73513-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	5.9		1.0	0.32	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.30	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	27		1.0	0.26	ug/L	1		8260B	Total/NA
1,3-Dichlorobenzene	0.62	J	1.0	0.32	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	3.4		1.0	0.23	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.5		1.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.77	J	1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.47	J	1.0	0.27	ug/L	1		8260B	Total/NA
Vinyl chloride	0.52	J	1.0	0.45	ug/L	1		8260B	Total/NA
Acenaphthene	0.62		0.23	0.050	ug/L	1		8270C	Total/NA
Anthracene	1.1		0.23	0.035	ug/L	1		8270C	Total/NA
Benzo[a]anthracene	2.2		0.23	0.067	ug/L	1		8270C	Total/NA
Benzo[b]fluoranthene	3.1		0.23	0.067	ug/L	1		8270C	Total/NA
Benzo[k]fluoranthene	1.5		0.23	0.055	ug/L	1		8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161214UAW22-20V16N (Continued)

Lab Sample ID: 240-73513-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	1.1		0.23	0.057	ug/L	1		8270C	Total/NA
Benzo[a]pyrene	2.1		0.23	0.034	ug/L	1		8270C	Total/NA
Carbazole	1.7		1.1	0.12	ug/L	1		8270C	Total/NA
Chrysene	2.4		0.23	0.040	ug/L	1		8270C	Total/NA
Dibenzofuran	0.36	J	1.1	0.16	ug/L	1		8270C	Total/NA
Fluoranthene	5.9		0.23	0.031	ug/L	1		8270C	Total/NA
Fluorene	0.39		0.23	0.039	ug/L	1		8270C	Total/NA
Indeno[1,2,3-cd]pyrene	1.1		0.23	0.055	ug/L	1		8270C	Total/NA
Naphthalene	0.23		0.23	0.049	ug/L	1		8270C	Total/NA
Phenanthrene	3.2		0.23	0.035	ug/L	1		8270C	Total/NA
Phenol	0.38	J	1.1	0.17	ug/L	1		8270C	Total/NA
Pyrene	4.6		0.23	0.032	ug/L	1		8270C	Total/NA
Acenaphthene - RE	0.53	H	0.21	0.046	ug/L	1		8270C	Total/NA
Anthracene - RE	0.94	H	0.21	0.032	ug/L	1		8270C	Total/NA
Benzo[a]anthracene - RE	2.2	H	0.21	0.061	ug/L	1		8270C	Total/NA
Benzo[b]fluoranthene - RE	2.8	H	0.21	0.061	ug/L	1		8270C	Total/NA
Benzo[k]fluoranthene - RE	1.2	H	0.21	0.050	ug/L	1		8270C	Total/NA
Benzo[g,h,i]perylene - RE	1.2	H	0.21	0.052	ug/L	1		8270C	Total/NA
Benzo[a]pyrene - RE	2.0	H	0.21	0.031	ug/L	1		8270C	Total/NA
Caprolactam - RE	36	H	5.2	0.39	ug/L	1		8270C	Total/NA
Carbazole - RE	1.3	H	1.0	0.11	ug/L	1		8270C	Total/NA
Chrysene - RE	2.3	H	0.21	0.036	ug/L	1		8270C	Total/NA
Dibenzofuran - RE	0.35	J H	1.0	0.14	ug/L	1		8270C	Total/NA
Diethyl phthalate - RE	0.45	J H B	1.0	0.13	ug/L	1		8270C	Total/NA
Fluoranthene - RE	5.1	H	0.21	0.028	ug/L	1		8270C	Total/NA
Fluorene - RE	0.39	H	0.21	0.035	ug/L	1		8270C	Total/NA
Indeno[1,2,3-cd]pyrene - RE	1.1	H	0.21	0.050	ug/L	1		8270C	Total/NA
Naphthalene - RE	0.23	H	0.21	0.045	ug/L	1		8270C	Total/NA
Phenanthrene - RE	2.9	H	0.21	0.032	ug/L	1		8270C	Total/NA
Pyrene - RE	4.4	H	0.21	0.029	ug/L	1		8270C	Total/NA
Aluminum	2800		200	40	ug/L	1		6010B	Total Recoverable
Antimony	5.0	J	10	3.1	ug/L	1		6010B	Total Recoverable
Barium	220		200	2.4	ug/L	1		6010B	Total Recoverable
Beryllium	0.37	J	5.0	0.21	ug/L	1		6010B	Total Recoverable
Calcium	300000		5000	710	ug/L	1		6010B	Total Recoverable
Cadmium	6.8		2.0	0.29	ug/L	1		6010B	Total Recoverable
Cobalt	2.1	J	7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	11		5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	29		25	3.9	ug/L	1		6010B	Total Recoverable
Iron	17000		100	25	ug/L	1		6010B	Total Recoverable
Potassium	12000		5000	70	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Client Sample ID: 20161214UAW22-20V16N (Continued) — Lab Sample ID: 240-73513-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	61000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	4700		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	1600000	B	25000	1700	ug/L	5		6010B	Total Recoverable
Nickel	16	J	40	1.6	ug/L	1		6010B	Total Recoverable
Vanadium	6.3	J	10	4.4	ug/L	1		6010B	Total Recoverable
Zinc	490		50	16	ug/L	1		6010B	Total Recoverable
Arsenic	9.8	J	10	3.3	ug/L	1		6010B	Total Recoverable
Lead	13		5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	320		100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161215UAW24-70V68N — Lab Sample ID: 240-73513-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.22		0.21	0.061	ug/L	1		8270C	Total/NA
Chrysene	0.26		0.21	0.036	ug/L	1		8270C	Total/NA
Diethyl phthalate	0.64	J	1.0	0.13	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	1.3		1.0	0.41	ug/L	1		8270C	Total/NA
Fluoranthene	0.55		0.21	0.028	ug/L	1		8270C	Total/NA
Phenanthrene	0.41		0.21	0.032	ug/L	1		8270C	Total/NA
Pyrene	0.45		0.21	0.029	ug/L	1		8270C	Total/NA
Barium	180	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	75000		5000	710	ug/L	1		6010B	Total Recoverable
Cadmium	0.72	J	2.0	0.29	ug/L	1		6010B	Total Recoverable
Chromium	0.75	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	4.5	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	74	J	100	25	ug/L	1		6010B	Total Recoverable
Potassium	3200	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	21000		5000	230	ug/L	1		6010B	Total Recoverable
Sodium	77000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	4.9	J	40	1.6	ug/L	1		6010B	Total Recoverable
Zinc	18	J	50	16	ug/L	1		6010B	Total Recoverable
Tin	22	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161215UAW10-80V77N — Lab Sample ID: 240-73513-4

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161215UAW10-80V77N (Continued) — Lab Sample ID: 240-73513-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.0		1.0	0.30	ug/L	1		8260B	Total/NA
Di-n-butyl phthalate	0.89	J	1.0	0.41	ug/L	1		8270C	Total/NA
Aluminum	46	J	200	40	ug/L	1		6010B	Total Recoverable
Barium	48	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	22000		5000	710	ug/L	1		6010B	Total Recoverable
Iron	77	J	100	25	ug/L	1		6010B	Total Recoverable
Potassium	900	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	1800	J	5000	230	ug/L	1		6010B	Total Recoverable
Manganese	15		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	1200	J B	5000	330	ug/L	1		6010B	Total Recoverable
Arsenic	15		10	3.3	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161214MW-EPA-3V14N — Lab Sample ID: 240-73513-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate - RE	0.41	J H B	0.96	0.12	ug/L	1		8270C	Total/NA
Aluminum	1400		200	40	ug/L	1		6010B	Total Recoverable
Barium	220		200	2.4	ug/L	1		6010B	Total Recoverable
Beryllium	0.28	J	5.0	0.21	ug/L	1		6010B	Total Recoverable
Calcium	270000		5000	710	ug/L	1		6010B	Total Recoverable
Cadmium	0.72	J	2.0	0.29	ug/L	1		6010B	Total Recoverable
Cobalt	18		7.0	0.84	ug/L	1		6010B	Total Recoverable
Chromium	220		5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	10	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	4300		100	25	ug/L	1		6010B	Total Recoverable
Potassium	2500	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	93000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	910		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	84000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	290		40	1.6	ug/L	1		6010B	Total Recoverable
Vanadium	8.8	J	10	4.4	ug/L	1		6010B	Total Recoverable
Zinc	93		50	16	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161214MW-EPA-3V14N (Continued) — Lab Sample ID: 240-73513-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.2	J	5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	5.8	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161214UAW18-20V15N — Lab Sample ID: 240-73513-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.1	J	10	1.8	ug/L	1		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	1.3	J	10	0.71	ug/L	1		8260B	Total/NA
Benzo[b]fluoranthene	0.45		0.19	0.057	ug/L	1		8270C	Total/NA
Benzo[k]fluoranthene	0.20		0.19	0.046	ug/L	1		8270C	Total/NA
Chrysene	0.37		0.19	0.034	ug/L	1		8270C	Total/NA
Fluoranthene	0.59		0.19	0.026	ug/L	1		8270C	Total/NA
Phenanthrene	0.24		0.19	0.030	ug/L	1		8270C	Total/NA
Pyrene	0.49		0.19	0.027	ug/L	1		8270C	Total/NA
Chrysene - RE	0.35	H	0.25	0.044	ug/L	1		8270C	Total/NA
Diethyl phthalate - RE	0.56	J H B	1.3	0.16	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate - RE	0.51	J H B	1.3	0.50	ug/L	1		8270C	Total/NA
Fluoranthene - RE	0.59	H	0.25	0.034	ug/L	1		8270C	Total/NA
Pyrene - RE	0.52	H	0.25	0.035	ug/L	1		8270C	Total/NA
Aluminum	2000		200	40	ug/L	1		6010B	Total Recoverable
Barium	38	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	39000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	6.9		5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	16	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	2100		100	25	ug/L	1		6010B	Total Recoverable
Potassium	1800	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	3400	J	5000	230	ug/L	1		6010B	Total Recoverable
Manganese	79		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	34000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	7.2	J	40	1.6	ug/L	1		6010B	Total Recoverable
Vanadium	10		10	4.4	ug/L	1		6010B	Total Recoverable
Zinc	79		50	16	ug/L	1		6010B	Total Recoverable
Lead	9.2		5.0	1.9	ug/L	1		6010B	Total Recoverable
Tin	99	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161215UAW27-50V43N — Lab Sample ID: 240-73513-7

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161215UAW27-50V43N (Continued) — Lab Sample ID: 240-73513-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.38	J	1.0	0.31	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	11		1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	4.3		1.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.48	J	1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.77	J	1.0	0.27	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.44	J	1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	5.8		1.0	0.23	ug/L	1		8260B	Total/NA
1,1,2-Trichloroethane	0.38	J	1.0	0.34	ug/L	1		8260B	Total/NA
Trichloroethene	1.4		1.0	0.33	ug/L	1		8260B	Total/NA
Di-n-butyl phthalate	0.47	J	1.0	0.40	ug/L	1		8270C	Total/NA
Barium	41	J	200	2.4	ug/L	1		6010B	Total Recoverable
Beryllium	0.29	J	5.0	0.21	ug/L	1		6010B	Total Recoverable
Calcium	170000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	3.7	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Iron	78	J	100	25	ug/L	1		6010B	Total Recoverable
Potassium	1500	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	52000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	33		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	40000	B	5000	330	ug/L	1		6010B	Total Recoverable
Nickel	4.4	J	40	1.6	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161215UAW19-80V74N — Lab Sample ID: 240-73513-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.53	J	1.0	0.31	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	13		1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	6.7		1.0	0.25	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	14		1.0	0.30	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	0.65	J	1.0	0.27	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.69	J	1.0	0.29	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	4.6		1.0	0.23	ug/L	1		8260B	Total/NA
1,1,2-Trichloroethane	0.43	J	1.0	0.34	ug/L	1		8260B	Total/NA
Trichloroethene	0.71	J	1.0	0.33	ug/L	1		8260B	Total/NA
Di-n-butyl phthalate	0.67	J	1.0	0.41	ug/L	1		8270C	Total/NA
Aluminum	50	J	200	40	ug/L	1		6010B	Total Recoverable
Barium	64	J	200	2.4	ug/L	1		6010B	Total Recoverable
Beryllium	0.26	J	5.0	0.21	ug/L	1		6010B	Total Recoverable
Calcium	160000		5000	710	ug/L	1		6010B	Total Recoverable
Chromium	0.68	J	5.0	0.55	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161215UAW19-80V74N (Continued) — Lab Sample ID: 240-73513-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	50	J	100	25	ug/L	1		6010B	Total Recoverable
Potassium	1700	J	5000	70	ug/L	1		6010B	Total Recoverable
Magnesium	48000		5000	230	ug/L	1		6010B	Total Recoverable
Manganese	17		15	5.1	ug/L	1		6010B	Total Recoverable
Sodium	66000	B	5000	330	ug/L	1		6010B	Total Recoverable

Client Sample ID: 20161215CINRB-2 — Lab Sample ID: 240-73513-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate	0.56	J	0.93	0.12	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	0.81	J	0.93	0.37	ug/L	1		8270C	Total/NA
Aluminum	120	J	200	40	ug/L	1		6010B	Total Recoverable
Barium	7.7	J	200	2.4	ug/L	1		6010B	Total Recoverable
Calcium	800	J	5000	710	ug/L	1		6010B	Total Recoverable
Chromium	0.64	J	5.0	0.55	ug/L	1		6010B	Total Recoverable
Copper	9.0	J	25	3.9	ug/L	1		6010B	Total Recoverable
Iron	54	J	100	25	ug/L	1		6010B	Total Recoverable
Sodium	1500	J B	5000	330	ug/L	1		6010B	Total Recoverable
Vanadium	5.4	J	10	4.4	ug/L	1		6010B	Total Recoverable
Tin	6.4	J	100	1.8	ug/L	1		6010B	Total Recoverable

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-73513-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 20161214UAW10-50V50N
Date Collected: 12/14/16 16:30
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/27/16 12:42	1
Benzene	1.0	U	1.0	0.28	ug/L			12/27/16 12:42	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/27/16 12:42	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/27/16 12:42	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/27/16 12:42	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/27/16 12:42	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/27/16 12:42	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/27/16 12:42	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 12:42	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/27/16 12:42	1
Chloroform	**4.4**		1.0	0.31	ug/L			12/27/16 12:42	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/27/16 12:42	1
cis-1,2-Dichloroethene	**3.6**		1.0	0.30	ug/L			12/27/16 12:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/27/16 12:42	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/27/16 12:42	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/27/16 12:42	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/27/16 12:42	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/27/16 12:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/27/16 12:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 12:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/27/16 12:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 12:42	1
1,1-Dichloroethane	**1.8**		1.0	0.25	ug/L			12/27/16 12:42	1
1,2-Dichloroethane	**0.38**	**J**	1.0	0.30	ug/L			12/27/16 12:42	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/27/16 12:42	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/27/16 12:42	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/27/16 12:42	1
2-Hexanone	10	U	10	1.2	ug/L			12/27/16 12:42	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/27/16 12:42	1
Methyl acetate	10	U	10	1.4	ug/L			12/27/16 12:42	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/27/16 12:42	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/27/16 12:42	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/27/16 12:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/27/16 12:42	1
Styrene	1.0	U	1.0	0.23	ug/L			12/27/16 12:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/27/16 12:42	1
Tetrachloroethene	**5.0**		1.0	0.30	ug/L			12/27/16 12:42	1
Toluene	1.0	U	1.0	0.23	ug/L			12/27/16 12:42	1
trans-1,2-Dichloroethene	**0.29**	**J**	1.0	0.29	ug/L			12/27/16 12:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/27/16 12:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/27/16 12:42	1
1,1,1-Trichloroethane	**1.0**		1.0	0.23	ug/L			12/27/16 12:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/27/16 12:42	1
Trichloroethene	**1.2**		1.0	0.33	ug/L			12/27/16 12:42	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 12:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/27/16 12:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/27/16 12:42	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/27/16 12:42	1

Client Sample ID: 20161214UAW10-50V50N
Date Collected: 12/14/16 16:30
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*12/27/16 12:42*	*1*
Dibromofluoromethane (Surr)	*81*		*80 - 120*		*12/27/16 12:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*63 - 132*		*12/27/16 12:42*	*1*
Toluene-d8 (Surr)	*78*		*73 - 124*		*12/27/16 12:42*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/20/16 09:01	12/23/16 15:44	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/20/16 09:01	12/23/16 15:44	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 15:44	1
Aniline	5.0	U	5.0	0.22	ug/L		12/20/16 09:01	12/23/16 15:44	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/20/16 09:01	12/23/16 15:44	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/20/16 09:01	12/23/16 15:44	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/20/16 09:01	12/23/16 15:44	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/20/16 09:01	12/23/16 15:44	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/20/16 09:01	12/23/16 15:44	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/20/16 09:01	12/23/16 15:44	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/20/16 09:01	12/23/16 15:44	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/20/16 09:01	12/23/16 15:44	1
Butyl benzyl phthalate	1.0	U *	1.0	0.22	ug/L		12/20/16 09:01	12/23/16 15:44	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 15:44	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/20/16 09:01	12/23/16 15:44	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/23/16 15:44	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/20/16 09:01	12/23/16 15:44	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/20/16 09:01	12/23/16 15:44	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/20/16 09:01	12/23/16 15:44	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 15:44	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/20/16 09:01	12/23/16 15:44	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/20/16 09:01	12/23/16 15:44	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 15:44	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 15:44	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/20/16 09:01	12/23/16 15:44	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/20/16 09:01	12/23/16 15:44	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/20/16 09:01	12/23/16 15:44	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/20/16 09:01	12/23/16 15:44	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/20/16 09:01	12/23/16 15:44	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 15:44	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/20/16 09:01	12/23/16 15:44	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/20/16 09:01	12/23/16 15:44	1
Diethyl phthalate	1.0	U *	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 15:44	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/20/16 09:01	12/23/16 15:44	1
Dimethyl phthalate	1.0	U *	1.0	0.10	ug/L		12/20/16 09:01	12/23/16 15:44	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/20/16 09:01	12/23/16 15:44	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/20/16 09:01	12/23/16 15:44	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/20/16 09:01	12/23/16 15:44	1
Di-n-butyl phthalate	**0.52**	**J**	1.0	0.40	ug/L		12/20/16 09:01	12/23/16 15:44	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/20/16 09:01	12/23/16 15:44	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/20/16 09:01	12/23/16 15:44	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/20/16 09:01	12/23/16 15:44	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 15:44	1

Client Sample ID: 20161214UAW10-50V50N
Date Collected: 12/14/16 16:30
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 15:44	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/20/16 09:01	12/23/16 15:44	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/20/16 09:01	12/23/16 15:44	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/20/16 09:01	12/23/16 15:44	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/20/16 09:01	12/23/16 15:44	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/23/16 15:44	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/20/16 09:01	12/23/16 15:44	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/20/16 09:01	12/23/16 15:44	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/20/16 09:01	12/23/16 15:44	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/20/16 09:01	12/23/16 15:44	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 15:44	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/20/16 09:01	12/23/16 15:44	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/20/16 09:01	12/23/16 15:44	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 15:44	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/20/16 09:01	12/23/16 15:44	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/20/16 09:01	12/23/16 15:44	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/20/16 09:01	12/23/16 15:44	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/20/16 09:01	12/23/16 15:44	1
Phenol	1.0	U	1.0	0.15	ug/L		12/20/16 09:01	12/23/16 15:44	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/20/16 09:01	12/23/16 15:44	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/20/16 09:01	12/23/16 15:44	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/20/16 09:01	12/23/16 15:44	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/20/16 09:01	12/23/16 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*44 - 120*	*12/20/16 09:01*	*12/23/16 15:44*	*1*
2-Fluorophenol (Surr)	*57*		*26 - 120*	*12/20/16 09:01*	*12/23/16 15:44*	*1*
2,4,6-Tribromophenol (Surr)	*41*		*36 - 120*	*12/20/16 09:01*	*12/23/16 15:44*	*1*
Nitrobenzene-d5 (Surr)	*63*		*44 - 120*	*12/20/16 09:01*	*12/23/16 15:44*	*1*
Phenol-d5 (Surr)	*49*		*16 - 120*	*12/20/16 09:01*	*12/23/16 15:44*	*1*
Terphenyl-d14 (Surr)	*47*		*43 - 120*	*12/20/16 09:01*	*12/23/16 15:44*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21	U H	0.21	0.046	ug/L		12/23/16 09:03	12/27/16 15:26	1
Acenaphthylene	0.21	U H	0.21	0.021	ug/L		12/23/16 09:03	12/27/16 15:26	1
Acetophenone	1.0	U H	1.0	0.15	ug/L		12/23/16 09:03	12/27/16 15:26	1
Aniline	5.2	U H	5.2	0.23	ug/L		12/23/16 09:03	12/27/16 15:26	1
Anthracene	0.21	U H	0.21	0.032	ug/L		12/23/16 09:03	12/27/16 15:26	1
Atrazine	2.1	U H	2.1	0.12	ug/L		12/23/16 09:03	12/27/16 15:26	1
Benzaldehyde	2.1	U H	2.1	0.31	ug/L		12/23/16 09:03	12/27/16 15:26	1
Benzo[a]anthracene	0.21	U H	0.21	0.061	ug/L		12/23/16 09:03	12/27/16 15:26	1
Benzo[b]fluoranthene	0.21	U H	0.21	0.061	ug/L		12/23/16 09:03	12/27/16 15:26	1
Benzo[k]fluoranthene	0.21	U H	0.21	0.050	ug/L		12/23/16 09:03	12/27/16 15:26	1
Benzo[g,h,i]perylene	0.21	U H	0.21	0.052	ug/L		12/23/16 09:03	12/27/16 15:26	1
Benzo[a]pyrene	0.21	U H	0.21	0.031	ug/L		12/23/16 09:03	12/27/16 15:26	1
Butyl benzyl phthalate	1.0	U H	1.0	0.23	ug/L		12/23/16 09:03	12/27/16 15:26	1
1,1'-Biphenyl	1.0	U H	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 15:26	1
Bis(2-chloroethoxy)methane	1.0	U H	1.0	0.039	ug/L		12/23/16 09:03	12/27/16 15:26	1
Bis(2-chloroethyl)ether	1.0	U H	1.0	0.20	ug/L		12/23/16 09:03	12/27/16 15:26	1

Client Sample ID: 20161214UAW10-50V50N
Date Collected: 12/14/16 16:30
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	2.1	U H	2.1	1.6	ug/L		12/23/16 09:03	12/27/16 15:26	1
4-Bromophenyl phenyl ether	2.1	U H	2.1	0.36	ug/L		12/23/16 09:03	12/27/16 15:26	1
Caprolactam	5.2	U H	5.2	0.39	ug/L		12/23/16 09:03	12/27/16 15:26	1
Carbazole	1.0	U H	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 15:26	1
4-Chloroaniline	2.1	U H	2.1	0.16	ug/L		12/23/16 09:03	12/27/16 15:26	1
4-Chloro-3-methylphenol	2.1	U H	2.1	0.29	ug/L		12/23/16 09:03	12/27/16 15:26	1
2-Chloronaphthalene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 15:26	1
2-Chlorophenol	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 15:26	1
4-Chlorophenyl phenyl ether	2.1	U H	2.1	0.31	ug/L		12/23/16 09:03	12/27/16 15:26	1
Chrysene	0.21	U H	0.21	0.036	ug/L		12/23/16 09:03	12/27/16 15:26	1
2-Methylnaphthalene	0.21	U H	0.21	0.039	ug/L		12/23/16 09:03	12/27/16 15:26	1
3 & 4 Methylphenol	2.1	U H	2.1	0.35	ug/L		12/23/16 09:03	12/27/16 15:26	1
Dibenz(a,h)anthracene	0.21	U H	0.21	0.042	ug/L		12/23/16 09:03	12/27/16 15:26	1
Dibenzofuran	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 15:26	1
3,3'-Dichlorobenzidine	5.2	U H	5.2	0.37	ug/L		12/23/16 09:03	12/27/16 15:26	1
2,4-Dichlorophenol	2.1	U H	2.1	0.31	ug/L		12/23/16 09:03	12/27/16 15:26	1
Diethyl phthalate	**0.54**	**J H B**	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 15:26	1
2,4-Dimethylphenol	2.1	U H	2.1	0.33	ug/L		12/23/16 09:03	12/27/16 15:26	1
Dimethyl phthalate	1.0	U H	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 15:26	1
4,6-Dinitro-2-methylphenol	5.2	U H	5.2	0.55	ug/L		12/23/16 09:03	12/27/16 15:26	1
2,4-Dinitrophenol	42	U H	42	6.4	ug/L		12/23/16 09:03	12/27/16 15:26	1
2,4-Dinitrotoluene	5.2	U H	5.2	0.27	ug/L		12/23/16 09:03	12/27/16 15:26	1
Di-n-butyl phthalate	**0.71**	**J H B**	1.0	0.41	ug/L		12/23/16 09:03	12/27/16 15:26	1
Di-n-octyl phthalate	1.0	U H	1.0	0.38	ug/L		12/23/16 09:03	12/27/16 15:26	1
Fluoranthene	0.21	U H	0.21	0.028	ug/L		12/23/16 09:03	12/27/16 15:26	1
Fluorene	0.21	U H	0.21	0.035	ug/L		12/23/16 09:03	12/27/16 15:26	1
Hexachlorobenzene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 15:26	1
Hexachlorobutadiene	1.0	U H	1.0	0.15	ug/L		12/23/16 09:03	12/27/16 15:26	1
Hexachlorocyclopentadiene	10	U H	10	2.6	ug/L		12/23/16 09:03	12/27/16 15:26	1
Hexachloroethane	1.0	U H	1.0	0.23	ug/L		12/23/16 09:03	12/27/16 15:26	1
Indeno[1,2,3-cd]pyrene	0.21	U H	0.21	0.050	ug/L		12/23/16 09:03	12/27/16 15:26	1
Isophorone	1.0	U H	1.0	0.044	ug/L		12/23/16 09:03	12/27/16 15:26	1
2-Methylphenol	1.0	U H	1.0	0.20	ug/L		12/23/16 09:03	12/27/16 15:26	1
Naphthalene	0.21	U H	0.21	0.045	ug/L		12/23/16 09:03	12/27/16 15:26	1
2-Nitroaniline	2.1	U H	2.1	0.32	ug/L		12/23/16 09:03	12/27/16 15:26	1
3-Nitroaniline	2.1	U H *	2.1	0.28	ug/L		12/23/16 09:03	12/27/16 15:26	1
4-Nitroaniline	2.1	U H	2.1	0.25	ug/L		12/23/16 09:03	12/27/16 15:26	1
Nitrobenzene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 15:26	1
2-Nitrophenol	2.1	U H	2.1	0.22	ug/L		12/23/16 09:03	12/27/16 15:26	1
4-Nitrophenol	5.2	U H	5.2	0.61	ug/L		12/23/16 09:03	12/27/16 15:26	1
N-Nitrosodiphenylamine	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 15:26	1
N-Nitrosodi-n-propylamine	1.0	U H	1.0	0.17	ug/L		12/23/16 09:03	12/27/16 15:26	1
2,2'-oxybis(1-chloropropane)	1.0	U H	1.0	0.19	ug/L		12/23/16 09:03	12/27/16 15:26	1
Pentachlorophenol	42	U H	42	5.7	ug/L		12/23/16 09:03	12/27/16 15:26	1
Phenanthrene	0.21	U H	0.21	0.032	ug/L		12/23/16 09:03	12/27/16 15:26	1
Phenol	1.0	U H	1.0	0.16	ug/L		12/23/16 09:03	12/27/16 15:26	1
Pyrene	0.21	U H	0.21	0.029	ug/L		12/23/16 09:03	12/27/16 15:26	1
2,4,5-Trichlorophenol	5.2	U H	5.2	0.38	ug/L		12/23/16 09:03	12/27/16 15:26	1
2,4,6-Trichlorophenol	5.2	U H	5.2	0.27	ug/L		12/23/16 09:03	12/27/16 15:26	1

Client Sample ID: 20161214UAW10-50V50N
Date Collected: 12/14/16 16:30
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	5.2	U H	5.2	0.24	ug/L		12/23/16 09:03	12/27/16 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*44 - 120*	*12/23/16 09:03*	*12/27/16 15:26*	*1*
2-Fluorophenol (Surr)	*56*		*26 - 120*	*12/23/16 09:03*	*12/27/16 15:26*	*1*
2,4,6-Tribromophenol (Surr)	*45*		*36 - 120*	*12/23/16 09:03*	*12/27/16 15:26*	*1*
Nitrobenzene-d5 (Surr)	*70*		*44 - 120*	*12/23/16 09:03*	*12/27/16 15:26*	*1*
Phenol-d5 (Surr)	*49*		*16 - 120*	*12/23/16 09:03*	*12/27/16 15:26*	*1*
Terphenyl-d14 (Surr)	*64*		*43 - 120*	*12/23/16 09:03*	*12/27/16 15:26*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**200**		200	40	ug/L		12/19/16 14:00	12/21/16 18:34	1
Antimony	10	U	10	3.1	ug/L		12/19/16 14:00	12/21/16 18:34	1
Barium	**41**	**J**	200	2.4	ug/L		12/19/16 14:00	12/21/16 18:34	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/19/16 14:00	12/21/16 18:34	1
Calcium	**160000**		5000	710	ug/L		12/19/16 14:00	12/21/16 18:34	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/19/16 14:00	12/21/16 18:34	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/19/16 14:00	12/21/16 18:34	1
Chromium	**0.67**	**J**	5.0	0.55	ug/L		12/19/16 14:00	12/21/16 18:34	1
Copper	**4.1**	**J**	25	3.9	ug/L		12/19/16 14:00	12/21/16 18:34	1
Iron	**240**		100	25	ug/L		12/19/16 14:00	12/21/16 18:34	1
Potassium	**1800**	**J**	5000	70	ug/L		12/19/16 14:00	12/21/16 18:34	1
Magnesium	**50000**		5000	230	ug/L		12/19/16 14:00	12/21/16 18:34	1
Manganese	**190**		15	5.1	ug/L		12/19/16 14:00	12/21/16 18:34	1
Silver	5.0	U	5.0	0.92	ug/L		12/19/16 14:00	12/21/16 18:34	1
Sodium	**35000**	**B**	5000	330	ug/L		12/19/16 14:00	12/21/16 18:34	1
Nickel	**3.7**	**J**	40	1.6	ug/L		12/19/16 14:00	12/21/16 18:34	1
Vanadium	10	U	10	4.4	ug/L		12/19/16 14:00	12/21/16 18:34	1
Zinc	50	U	50	16	ug/L		12/19/16 14:00	12/21/16 18:34	1
Arsenic	10	U	10	3.3	ug/L		12/19/16 14:00	12/21/16 18:34	1
Lead	**2.4**	**J**	5.0	1.9	ug/L		12/19/16 14:00	12/21/16 18:34	1
Selenium	15	U	15	5.1	ug/L		12/19/16 14:00	12/21/16 18:34	1
Thallium	10	U	10	2.1	ug/L		12/19/16 14:00	12/21/16 18:34	1
Tin	100	U	100	1.8	ug/L		12/19/16 14:00	12/21/16 18:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/19/16 14:00	12/20/16 15:11	1

Client Sample ID: 20161214UAW22-20V16N
Date Collected: 12/14/16 17:15
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/27/16 13:04	1
Benzene	1.0	U	1.0	0.28	ug/L			12/27/16 13:04	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/27/16 13:04	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/27/16 13:04	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/27/16 13:04	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/27/16 13:04	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/27/16 13:04	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/27/16 13:04	1
Chlorobenzene	**5.9**		1.0	0.32	ug/L			12/27/16 13:04	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/27/16 13:04	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/27/16 13:04	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/27/16 13:04	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.30	ug/L			12/27/16 13:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/27/16 13:04	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/27/16 13:04	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/27/16 13:04	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/27/16 13:04	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/27/16 13:04	1
1,2-Dichlorobenzene	**27**		1.0	0.26	ug/L			12/27/16 13:04	1
1,3-Dichlorobenzene	**0.62**	**J**	1.0	0.32	ug/L			12/27/16 13:04	1
1,4-Dichlorobenzene	**3.4**		1.0	0.23	ug/L			12/27/16 13:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 13:04	1
1,1-Dichloroethane	**1.5**		1.0	0.25	ug/L			12/27/16 13:04	1
1,2-Dichloroethane	**0.77**	**J**	1.0	0.30	ug/L			12/27/16 13:04	1
1,1-Dichloroethene	**0.47**	**J**	1.0	0.27	ug/L			12/27/16 13:04	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/27/16 13:04	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/27/16 13:04	1
2-Hexanone	10	U	10	1.2	ug/L			12/27/16 13:04	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/27/16 13:04	1
Methyl acetate	10	U	10	1.4	ug/L			12/27/16 13:04	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/27/16 13:04	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/27/16 13:04	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/27/16 13:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/27/16 13:04	1
Styrene	1.0	U	1.0	0.23	ug/L			12/27/16 13:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/27/16 13:04	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 13:04	1
Toluene	1.0	U	1.0	0.23	ug/L			12/27/16 13:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/27/16 13:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/27/16 13:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/27/16 13:04	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/27/16 13:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/27/16 13:04	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/27/16 13:04	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 13:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/27/16 13:04	1
Vinyl chloride	**0.52**	**J**	1.0	0.45	ug/L			12/27/16 13:04	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/27/16 13:04	1

Client Sample ID: 20161214UAW22-20V16N
Date Collected: 12/14/16 17:15
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*12/27/16 13:04*	*1*
Dibromofluoromethane (Surr)	*84*		*80 - 120*		*12/27/16 13:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*63 - 132*		*12/27/16 13:04*	*1*
Toluene-d8 (Surr)	*81*		*73 - 124*		*12/27/16 13:04*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.62**		0.23	0.050	ug/L		12/20/16 09:01	12/23/16 16:09	1
Acenaphthylene	0.23	U	0.23	0.023	ug/L		12/20/16 09:01	12/23/16 16:09	1
Acetophenone	1.1	U	1.1	0.16	ug/L		12/20/16 09:01	12/23/16 16:09	1
Aniline	5.7	U	5.7	0.25	ug/L		12/20/16 09:01	12/23/16 16:09	1
Anthracene	**1.1**		0.23	0.035	ug/L		12/20/16 09:01	12/23/16 16:09	1
Atrazine	2.3	U	2.3	0.13	ug/L		12/20/16 09:01	12/23/16 16:09	1
Benzaldehyde	2.3	U	2.3	0.34	ug/L		12/20/16 09:01	12/23/16 16:09	1
Benzo[a]anthracene	**2.2**		0.23	0.067	ug/L		12/20/16 09:01	12/23/16 16:09	1
Benzo[b]fluoranthene	**3.1**		0.23	0.067	ug/L		12/20/16 09:01	12/23/16 16:09	1
Benzo[k]fluoranthene	**1.5**		0.23	0.055	ug/L		12/20/16 09:01	12/23/16 16:09	1
Benzo[g,h,i]perylene	**1.1**		0.23	0.057	ug/L		12/20/16 09:01	12/23/16 16:09	1
Benzo[a]pyrene	**2.1**		0.23	0.034	ug/L		12/20/16 09:01	12/23/16 16:09	1
Butyl benzyl phthalate	1.1	U *	1.1	0.25	ug/L		12/20/16 09:01	12/23/16 16:09	1
1,1'-Biphenyl	1.1	U	1.1	0.14	ug/L		12/20/16 09:01	12/23/16 16:09	1
Bis(2-chloroethoxy)methane	1.1	U	1.1	0.042	ug/L		12/20/16 09:01	12/23/16 16:09	1
Bis(2-chloroethyl)ether	1.1	U	1.1	0.22	ug/L		12/20/16 09:01	12/23/16 16:09	1
Bis(2-ethylhexyl) phthalate	2.3	U	2.3	1.7	ug/L		12/20/16 09:01	12/23/16 16:09	1
4-Bromophenyl phenyl ether	2.3	U	2.3	0.39	ug/L		12/20/16 09:01	12/23/16 16:09	1
Caprolactam	5.7	U	5.7	0.42	ug/L		12/20/16 09:01	12/23/16 16:09	1
Carbazole	**1.7**		1.1	0.12	ug/L		12/20/16 09:01	12/23/16 16:09	1
4-Chloroaniline	2.3	U	2.3	0.17	ug/L		12/20/16 09:01	12/23/16 16:09	1
4-Chloro-3-methylphenol	2.3	U	2.3	0.32	ug/L		12/20/16 09:01	12/23/16 16:09	1
2-Chloronaphthalene	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/23/16 16:09	1
2-Chlorophenol	1.1	U	1.1	0.15	ug/L		12/20/16 09:01	12/23/16 16:09	1
4-Chlorophenyl phenyl ether	2.3	U	2.3	0.33	ug/L		12/20/16 09:01	12/23/16 16:09	1
Chrysene	**2.4**		0.23	0.040	ug/L		12/20/16 09:01	12/23/16 16:09	1
2-Methylnaphthalene	0.23	U	0.23	0.042	ug/L		12/20/16 09:01	12/23/16 16:09	1
3 & 4 Methylphenol	2.3	U	2.3	0.38	ug/L		12/20/16 09:01	12/23/16 16:09	1
Dibenz(a,h)anthracene	0.23	U	0.23	0.045	ug/L		12/20/16 09:01	12/23/16 16:09	1
Dibenzofuran	**0.36**	**J**	1.1	0.16	ug/L		12/20/16 09:01	12/23/16 16:09	1
3,3'-Dichlorobenzidine	5.7	U	5.7	0.40	ug/L		12/20/16 09:01	12/23/16 16:09	1
2,4-Dichlorophenol	2.3	U	2.3	0.33	ug/L		12/20/16 09:01	12/23/16 16:09	1
Diethyl phthalate	1.1	U *	1.1	0.14	ug/L		12/20/16 09:01	12/23/16 16:09	1
2,4-Dimethylphenol	2.3	U	2.3	0.36	ug/L		12/20/16 09:01	12/23/16 16:09	1
Dimethyl phthalate	1.1	U *	1.1	0.11	ug/L		12/20/16 09:01	12/23/16 16:09	1
4,6-Dinitro-2-methylphenol	5.7	U	5.7	0.60	ug/L		12/20/16 09:01	12/23/16 16:09	1
2,4-Dinitrophenol	45	U	45	7.0	ug/L		12/20/16 09:01	12/23/16 16:09	1
2,4-Dinitrotoluene	5.7	U	5.7	0.29	ug/L		12/20/16 09:01	12/23/16 16:09	1
Di-n-butyl phthalate	1.1	U	1.1	0.45	ug/L		12/20/16 09:01	12/23/16 16:09	1
Di-n-octyl phthalate	1.1	U	1.1	0.41	ug/L		12/20/16 09:01	12/23/16 16:09	1
Fluoranthene	**5.9**		0.23	0.031	ug/L		12/20/16 09:01	12/23/16 16:09	1
Fluorene	**0.39**		0.23	0.039	ug/L		12/20/16 09:01	12/23/16 16:09	1
Hexachlorobenzene	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/23/16 16:09	1

Client Sample ID: 20161214UAW22-20V16N
Date Collected: 12/14/16 17:15
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.1	U	1.1	0.16	ug/L		12/20/16 09:01	12/23/16 16:09	1
Hexachlorocyclopentadiene	11	U	11	2.8	ug/L		12/20/16 09:01	12/23/16 16:09	1
Hexachloroethane	1.1	U	1.1	0.25	ug/L		12/20/16 09:01	12/23/16 16:09	1
Indeno[1,2,3-cd]pyrene	**1.1**		0.23	0.055	ug/L		12/20/16 09:01	12/23/16 16:09	1
Isophorone	1.1	U	1.1	0.048	ug/L		12/20/16 09:01	12/23/16 16:09	1
2-Methylphenol	1.1	U	1.1	0.21	ug/L		12/20/16 09:01	12/23/16 16:09	1
Naphthalene	**0.23**		0.23	0.049	ug/L		12/20/16 09:01	12/23/16 16:09	1
2-Nitroaniline	2.3	U	2.3	0.35	ug/L		12/20/16 09:01	12/23/16 16:09	1
3-Nitroaniline	2.3	U	2.3	0.30	ug/L		12/20/16 09:01	12/23/16 16:09	1
4-Nitroaniline	2.3	U	2.3	0.27	ug/L		12/20/16 09:01	12/23/16 16:09	1
Nitrobenzene	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/23/16 16:09	1
2-Nitrophenol	2.3	U	2.3	0.24	ug/L		12/20/16 09:01	12/23/16 16:09	1
4-Nitrophenol	5.7	U	5.7	0.67	ug/L		12/20/16 09:01	12/23/16 16:09	1
N-Nitrosodiphenylamine	1.1	U	1.1	0.13	ug/L		12/20/16 09:01	12/23/16 16:09	1
N-Nitrosodi-n-propylamine	1.1	U	1.1	0.18	ug/L		12/20/16 09:01	12/23/16 16:09	1
2,2'-oxybis(1-chloropropane)	1.1	U	1.1	0.21	ug/L		12/20/16 09:01	12/23/16 16:09	1
Pentachlorophenol	45	U	45	6.2	ug/L		12/20/16 09:01	12/23/16 16:09	1
Phenanthrene	**3.2**		0.23	0.035	ug/L		12/20/16 09:01	12/23/16 16:09	1
Phenol	**0.38**	**J**	1.1	0.17	ug/L		12/20/16 09:01	12/23/16 16:09	1
Pyrene	**4.6**		0.23	0.032	ug/L		12/20/16 09:01	12/23/16 16:09	1
2,4,5-Trichlorophenol	5.7	U	5.7	0.42	ug/L		12/20/16 09:01	12/23/16 16:09	1
2,4,6-Trichlorophenol	5.7	U	5.7	0.30	ug/L		12/20/16 09:01	12/23/16 16:09	1
2,6-Dinitrotoluene	5.7	U	5.7	0.27	ug/L		12/20/16 09:01	12/23/16 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*44 - 120*	*12/20/16 09:01*	*12/23/16 16:09*	*1*
2-Fluorophenol (Surr)	*43*		*26 - 120*	*12/20/16 09:01*	*12/23/16 16:09*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*36 - 120*	*12/20/16 09:01*	*12/23/16 16:09*	*1*
Nitrobenzene-d5 (Surr)	*66*		*44 - 120*	*12/20/16 09:01*	*12/23/16 16:09*	*1*
Phenol-d5 (Surr)	*37*		*16 - 120*	*12/20/16 09:01*	*12/23/16 16:09*	*1*
Terphenyl-d14 (Surr)	*35*	*X*	*43 - 120*	*12/20/16 09:01*	*12/23/16 16:09*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.53**	**H**	0.21	0.046	ug/L		12/23/16 09:03	12/27/16 15:51	1
Acenaphthylene	0.21	U H	0.21	0.021	ug/L		12/23/16 09:03	12/27/16 15:51	1
Acetophenone	1.0	U H	1.0	0.15	ug/L		12/23/16 09:03	12/27/16 15:51	1
Aniline	5.2	U H	5.2	0.23	ug/L		12/23/16 09:03	12/27/16 15:51	1
Anthracene	**0.94**	**H**	0.21	0.032	ug/L		12/23/16 09:03	12/27/16 15:51	1
Atrazine	2.1	U H	2.1	0.12	ug/L		12/23/16 09:03	12/27/16 15:51	1
Benzaldehyde	2.1	U H	2.1	0.31	ug/L		12/23/16 09:03	12/27/16 15:51	1
Benzo[a]anthracene	**2.2**	**H**	0.21	0.061	ug/L		12/23/16 09:03	12/27/16 15:51	1
Benzo[b]fluoranthene	**2.8**	**H**	0.21	0.061	ug/L		12/23/16 09:03	12/27/16 15:51	1
Benzo[k]fluoranthene	**1.2**	**H**	0.21	0.050	ug/L		12/23/16 09:03	12/27/16 15:51	1
Benzo[g,h,i]perylene	**1.2**	**H**	0.21	0.052	ug/L		12/23/16 09:03	12/27/16 15:51	1
Benzo[a]pyrene	**2.0**	**H**	0.21	0.031	ug/L		12/23/16 09:03	12/27/16 15:51	1
Butyl benzyl phthalate	1.0	U H	1.0	0.23	ug/L		12/23/16 09:03	12/27/16 15:51	1
1,1'-Biphenyl	1.0	U H	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 15:51	1
Bis(2-chloroethoxy)methane	1.0	U H	1.0	0.039	ug/L		12/23/16 09:03	12/27/16 15:51	1
Bis(2-chloroethyl)ether	1.0	U H	1.0	0.20	ug/L		12/23/16 09:03	12/27/16 15:51	1

Client Sample ID: 20161214UAW22-20V16N
Date Collected: 12/14/16 17:15
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	2.1	U H	2.1	1.6	ug/L		12/23/16 09:03	12/27/16 15:51	1
4-Bromophenyl phenyl ether	2.1	U H	2.1	0.36	ug/L		12/23/16 09:03	12/27/16 15:51	1
Caprolactam	**36**	**H**	5.2	0.39	ug/L		12/23/16 09:03	12/27/16 15:51	1
Carbazole	**1.3**	**H**	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 15:51	1
4-Chloroaniline	2.1	U H	2.1	0.16	ug/L		12/23/16 09:03	12/27/16 15:51	1
4-Chloro-3-methylphenol	2.1	U H	2.1	0.29	ug/L		12/23/16 09:03	12/27/16 15:51	1
2-Chloronaphthalene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 15:51	1
2-Chlorophenol	1.0	U H	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 15:51	1
4-Chlorophenyl phenyl ether	2.1	U H	2.1	0.31	ug/L		12/23/16 09:03	12/27/16 15:51	1
Chrysene	**2.3**	**H**	0.21	0.036	ug/L		12/23/16 09:03	12/27/16 15:51	1
2-Methylnaphthalene	0.21	U H	0.21	0.039	ug/L		12/23/16 09:03	12/27/16 15:51	1
3 & 4 Methylphenol	2.1	U H	2.1	0.35	ug/L		12/23/16 09:03	12/27/16 15:51	1
Dibenz(a,h)anthracene	0.21	U H	0.21	0.042	ug/L		12/23/16 09:03	12/27/16 15:51	1
Dibenzofuran	**0.35**	**J H**	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 15:51	1
3,3'-Dichlorobenzidine	5.2	U H	5.2	0.37	ug/L		12/23/16 09:03	12/27/16 15:51	1
2,4-Dichlorophenol	2.1	U H	2.1	0.31	ug/L		12/23/16 09:03	12/27/16 15:51	1
Diethyl phthalate	**0.45**	**J H B**	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 15:51	1
2,4-Dimethylphenol	2.1	U H	2.1	0.33	ug/L		12/23/16 09:03	12/27/16 15:51	1
Dimethyl phthalate	1.0	U H	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 15:51	1
4,6-Dinitro-2-methylphenol	5.2	U H	5.2	0.55	ug/L		12/23/16 09:03	12/27/16 15:51	1
2,4-Dinitrophenol	42	U H	42	6.4	ug/L		12/23/16 09:03	12/27/16 15:51	1
2,4-Dinitrotoluene	5.2	U H	5.2	0.27	ug/L		12/23/16 09:03	12/27/16 15:51	1
Di-n-butyl phthalate	1.0	U H	1.0	0.41	ug/L		12/23/16 09:03	12/27/16 15:51	1
Di-n-octyl phthalate	1.0	U H	1.0	0.38	ug/L		12/23/16 09:03	12/27/16 15:51	1
Fluoranthene	**5.1**	**H**	0.21	0.028	ug/L		12/23/16 09:03	12/27/16 15:51	1
Fluorene	**0.39**	**H**	0.21	0.035	ug/L		12/23/16 09:03	12/27/16 15:51	1
Hexachlorobenzene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 15:51	1
Hexachlorobutadiene	1.0	U H	1.0	0.15	ug/L		12/23/16 09:03	12/27/16 15:51	1
Hexachlorocyclopentadiene	10	U H	10	2.6	ug/L		12/23/16 09:03	12/27/16 15:51	1
Hexachloroethane	1.0	U H	1.0	0.23	ug/L		12/23/16 09:03	12/27/16 15:51	1
Indeno[1,2,3-cd]pyrene	**1.1**	**H**	0.21	0.050	ug/L		12/23/16 09:03	12/27/16 15:51	1
Isophorone	1.0	U H	1.0	0.044	ug/L		12/23/16 09:03	12/27/16 15:51	1
2-Methylphenol	1.0	U H	1.0	0.20	ug/L		12/23/16 09:03	12/27/16 15:51	1
Naphthalene	**0.23**	**H**	0.21	0.045	ug/L		12/23/16 09:03	12/27/16 15:51	1
2-Nitroaniline	2.1	U H	2.1	0.32	ug/L		12/23/16 09:03	12/27/16 15:51	1
3-Nitroaniline	2.1	U H *	2.1	0.28	ug/L		12/23/16 09:03	12/27/16 15:51	1
4-Nitroaniline	2.1	U H	2.1	0.25	ug/L		12/23/16 09:03	12/27/16 15:51	1
Nitrobenzene	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 15:51	1
2-Nitrophenol	2.1	U H	2.1	0.22	ug/L		12/23/16 09:03	12/27/16 15:51	1
4-Nitrophenol	5.2	U H	5.2	0.61	ug/L		12/23/16 09:03	12/27/16 15:51	1
N-Nitrosodiphenylamine	1.0	U H	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 15:51	1
N-Nitrosodi-n-propylamine	1.0	U H	1.0	0.17	ug/L		12/23/16 09:03	12/27/16 15:51	1
2,2'-oxybis(1-chloropropane)	1.0	U H	1.0	0.19	ug/L		12/23/16 09:03	12/27/16 15:51	1
Pentachlorophenol	42	U H	42	5.7	ug/L		12/23/16 09:03	12/27/16 15:51	1
Phenanthrene	**2.9**	**H**	0.21	0.032	ug/L		12/23/16 09:03	12/27/16 15:51	1
Phenol	1.0	U H	1.0	0.16	ug/L		12/23/16 09:03	12/27/16 15:51	1
Pyrene	**4.4**	**H**	0.21	0.029	ug/L		12/23/16 09:03	12/27/16 15:51	1
2,4,5-Trichlorophenol	5.2	U H	5.2	0.38	ug/L		12/23/16 09:03	12/27/16 15:51	1
2,4,6-Trichlorophenol	5.2	U H	5.2	0.27	ug/L		12/23/16 09:03	12/27/16 15:51	1

Client Sample ID: 20161214UAW22-20V16N
Date Collected: 12/14/16 17:15
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	5.2	U H	5.2	0.24	ug/L		12/23/16 09:03	12/27/16 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*54*		*44 - 120*	*12/23/16 09:03*	*12/27/16 15:51*	*1*
2-Fluorophenol (Surr)	*12*	*X*	*26 - 120*	*12/23/16 09:03*	*12/27/16 15:51*	*1*
2,4,6-Tribromophenol (Surr)	*15*	*X*	*36 - 120*	*12/23/16 09:03*	*12/27/16 15:51*	*1*
Nitrobenzene-d5 (Surr)	*60*		*44 - 120*	*12/23/16 09:03*	*12/27/16 15:51*	*1*
Phenol-d5 (Surr)	*17*		*16 - 120*	*12/23/16 09:03*	*12/27/16 15:51*	*1*
Terphenyl-d14 (Surr)	*63*		*43 - 120*	*12/23/16 09:03*	*12/27/16 15:51*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2800**		200	40	ug/L		12/19/16 14:00	12/21/16 18:55	1
Antimony	**5.0**	**J**	10	3.1	ug/L		12/19/16 14:00	12/21/16 18:55	1
Barium	**220**		200	2.4	ug/L		12/19/16 14:00	12/21/16 18:55	1
Beryllium	**0.37**	**J**	5.0	0.21	ug/L		12/19/16 14:00	12/21/16 18:55	1
Calcium	**300000**		5000	710	ug/L		12/19/16 14:00	12/21/16 18:55	1
Cadmium	**6.8**		2.0	0.29	ug/L		12/19/16 14:00	12/21/16 18:55	1
Cobalt	**2.1**	**J**	7.0	0.84	ug/L		12/19/16 14:00	12/21/16 18:55	1
Chromium	**11**		5.0	0.55	ug/L		12/19/16 14:00	12/21/16 18:55	1
Copper	**29**		25	3.9	ug/L		12/19/16 14:00	12/21/16 18:55	1
Iron	**17000**		100	25	ug/L		12/19/16 14:00	12/21/16 18:55	1
Potassium	**12000**		5000	70	ug/L		12/19/16 14:00	12/21/16 18:55	1
Magnesium	**61000**		5000	230	ug/L		12/19/16 14:00	12/21/16 18:55	1
Manganese	**4700**		15	5.1	ug/L		12/19/16 14:00	12/21/16 18:55	1
Silver	5.0	U	5.0	0.92	ug/L		12/19/16 14:00	12/21/16 18:55	1
Sodium	**1600000**	**B**	25000	1700	ug/L		12/19/16 14:00	12/27/16 20:56	5
Nickel	**16**	**J**	40	1.6	ug/L		12/19/16 14:00	12/21/16 18:55	1
Vanadium	**6.3**	**J**	10	4.4	ug/L		12/19/16 14:00	12/21/16 18:55	1
Zinc	**490**		50	16	ug/L		12/19/16 14:00	12/21/16 18:55	1
Arsenic	**9.8**	**J**	10	3.3	ug/L		12/19/16 14:00	12/21/16 18:55	1
Lead	**13**		5.0	1.9	ug/L		12/19/16 14:00	12/21/16 18:55	1
Selenium	15	U	15	5.1	ug/L		12/19/16 14:00	12/21/16 18:55	1
Thallium	10	U L	10	2.1	ug/L		12/19/16 14:00	12/21/16 18:55	1
Tin	**320**		100	1.8	ug/L		12/19/16 14:00	12/21/16 18:55	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/19/16 14:00	12/20/16 15:17	1

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Client Sample ID: 20161215UAW24-70V68N
Date Collected: 12/15/16 10:50
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/27/16 15:43	1
Benzene	1.0	U	1.0	0.28	ug/L			12/27/16 15:43	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/27/16 15:43	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/27/16 15:43	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/27/16 15:43	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/27/16 15:43	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/27/16 15:43	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/27/16 15:43	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 15:43	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/27/16 15:43	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/27/16 15:43	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/27/16 15:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 15:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/27/16 15:43	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/27/16 15:43	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/27/16 15:43	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/27/16 15:43	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/27/16 15:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/27/16 15:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 15:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/27/16 15:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 15:43	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/27/16 15:43	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/27/16 15:43	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/27/16 15:43	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/27/16 15:43	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/27/16 15:43	1
2-Hexanone	10	U	10	1.2	ug/L			12/27/16 15:43	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/27/16 15:43	1
Methyl acetate	10	U	10	1.4	ug/L			12/27/16 15:43	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/27/16 15:43	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/27/16 15:43	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/27/16 15:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/27/16 15:43	1
Styrene	1.0	U	1.0	0.23	ug/L			12/27/16 15:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/27/16 15:43	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 15:43	1
Toluene	1.0	U	1.0	0.23	ug/L			12/27/16 15:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/27/16 15:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/27/16 15:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/27/16 15:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/27/16 15:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/27/16 15:43	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/27/16 15:43	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 15:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/27/16 15:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/27/16 15:43	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/27/16 15:43	1

Client Sample ID: 20161215UAW24-70V68N
Date Collected: 12/15/16 10:50
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*12/27/16 15:43*	*1*
Dibromofluoromethane (Surr)	*83*		*80 - 120*		*12/27/16 15:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*63 - 132*		*12/27/16 15:43*	*1*
Toluene-d8 (Surr)	*80*		*73 - 124*		*12/27/16 15:43*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21	U	0.21	0.046	ug/L		12/22/16 08:32	12/28/16 14:33	1
Acenaphthylene	0.21	U	0.21	0.021	ug/L		12/22/16 08:32	12/28/16 14:33	1
Acetophenone	1.0	U	1.0	0.15	ug/L		12/22/16 08:32	12/28/16 14:33	1
Aniline	5.2	U	5.2	0.23	ug/L		12/22/16 08:32	12/28/16 14:33	1
Anthracene	0.21	U	0.21	0.032	ug/L		12/22/16 08:32	12/28/16 14:33	1
Atrazine	2.1	U	2.1	0.12	ug/L		12/22/16 08:32	12/28/16 14:33	1
Benzaldehyde	2.1	U *	2.1	0.31	ug/L		12/22/16 08:32	12/28/16 14:33	1
Benzo[a]anthracene	**0.22**		0.21	0.061	ug/L		12/22/16 08:32	12/28/16 14:33	1
Benzo[b]fluoranthene	0.21	U	0.21	0.061	ug/L		12/22/16 08:32	12/28/16 14:33	1
Benzo[k]fluoranthene	0.21	U	0.21	0.050	ug/L		12/22/16 08:32	12/28/16 14:33	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.052	ug/L		12/22/16 08:32	12/28/16 14:33	1
Benzo[a]pyrene	0.21	U	0.21	0.031	ug/L		12/22/16 08:32	12/28/16 14:33	1
Butyl benzyl phthalate	1.0	U	1.0	0.23	ug/L		12/22/16 08:32	12/28/16 14:33	1
1,1'-Biphenyl	1.0	U	1.0	0.13	ug/L		12/22/16 08:32	12/28/16 14:33	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.039	ug/L		12/22/16 08:32	12/28/16 14:33	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.20	ug/L		12/22/16 08:32	12/28/16 14:33	1
Bis(2-ethylhexyl) phthalate	2.1	U	2.1	1.6	ug/L		12/22/16 08:32	12/28/16 14:33	1
4-Bromophenyl phenyl ether	2.1	U	2.1	0.36	ug/L		12/22/16 08:32	12/28/16 14:33	1
Caprolactam	5.2	U	5.2	0.39	ug/L		12/22/16 08:32	12/28/16 14:33	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/22/16 08:32	12/28/16 14:33	1
4-Chloroaniline	2.1	U	2.1	0.16	ug/L		12/22/16 08:32	12/28/16 14:33	1
4-Chloro-3-methylphenol	2.1	U	2.1	0.29	ug/L		12/22/16 08:32	12/28/16 14:33	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 14:33	1
2-Chlorophenol	1.0	U	1.0	0.14	ug/L		12/22/16 08:32	12/28/16 14:33	1
4-Chlorophenyl phenyl ether	2.1	U	2.1	0.31	ug/L		12/22/16 08:32	12/28/16 14:33	1
Chrysene	**0.26**		0.21	0.036	ug/L		12/22/16 08:32	12/28/16 14:33	1
2-Methylnaphthalene	0.21	U	0.21	0.039	ug/L		12/22/16 08:32	12/28/16 14:33	1
3 & 4 Methylphenol	2.1	U	2.1	0.35	ug/L		12/22/16 08:32	12/28/16 14:33	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.042	ug/L		12/22/16 08:32	12/28/16 14:33	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/22/16 08:32	12/28/16 14:33	1
3,3'-Dichlorobenzidine	5.2	U	5.2	0.37	ug/L		12/22/16 08:32	12/28/16 14:33	1
2,4-Dichlorophenol	2.1	U	2.1	0.31	ug/L		12/22/16 08:32	12/28/16 14:33	1
Diethyl phthalate	**0.64**	**J**	1.0	0.13	ug/L		12/22/16 08:32	12/28/16 14:33	1
2,4-Dimethylphenol	2.1	U	2.1	0.33	ug/L		12/22/16 08:32	12/28/16 14:33	1
Dimethyl phthalate	1.0	U	1.0	0.11	ug/L		12/22/16 08:32	12/28/16 14:33	1
4,6-Dinitro-2-methylphenol	5.2	U	5.2	0.55	ug/L		12/22/16 08:32	12/28/16 14:33	1
2,4-Dinitrophenol	42	U	42	6.4	ug/L		12/22/16 08:32	12/28/16 14:33	1
2,4-Dinitrotoluene	5.2	U	5.2	0.27	ug/L		12/22/16 08:32	12/28/16 14:33	1
Di-n-butyl phthalate	**1.3**		1.0	0.41	ug/L		12/22/16 08:32	12/28/16 14:33	1
Di-n-octyl phthalate	1.0	U	1.0	0.38	ug/L		12/22/16 08:32	12/28/16 14:33	1
Fluoranthene	**0.55**		0.21	0.028	ug/L		12/22/16 08:32	12/28/16 14:33	1
Fluorene	0.21	U	0.21	0.035	ug/L		12/22/16 08:32	12/28/16 14:33	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 14:33	1

Client Sample ID: 20161215UAW24-70V68N — **Lab Sample ID: 240-73513-3**
Date Collected: 12/15/16 10:50 — **Matrix: Water**
Date Received: 12/17/16 08:00

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.15	ug/L		12/22/16 08:32	12/28/16 14:33	1
Hexachlorocyclopentadiene	10	U	10	2.6	ug/L		12/22/16 08:32	12/28/16 14:33	1
Hexachloroethane	1.0	U	1.0	0.23	ug/L		12/22/16 08:32	12/28/16 14:33	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.050	ug/L		12/22/16 08:32	12/28/16 14:33	1
Isophorone	1.0	U	1.0	0.044	ug/L		12/22/16 08:32	12/28/16 14:33	1
2-Methylphenol	1.0	U	1.0	0.20	ug/L		12/22/16 08:32	12/28/16 14:33	1
Naphthalene	0.21	U	0.21	0.045	ug/L		12/22/16 08:32	12/28/16 14:33	1
2-Nitroaniline	2.1	U	2.1	0.32	ug/L		12/22/16 08:32	12/28/16 14:33	1
3-Nitroaniline	2.1	U	2.1	0.28	ug/L		12/22/16 08:32	12/28/16 14:33	1
4-Nitroaniline	2.1	U	2.1	0.25	ug/L		12/22/16 08:32	12/28/16 14:33	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 14:33	1
2-Nitrophenol	2.1	U	2.1	0.22	ug/L		12/22/16 08:32	12/28/16 14:33	1
4-Nitrophenol	5.2	U	5.2	0.61	ug/L		12/22/16 08:32	12/28/16 14:33	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 14:33	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.17	ug/L		12/22/16 08:32	12/28/16 14:33	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.19	ug/L		12/22/16 08:32	12/28/16 14:33	1
Pentachlorophenol	42	U	42	5.7	ug/L		12/22/16 08:32	12/28/16 14:33	1
Phenanthrene	**0.41**		0.21	0.032	ug/L		12/22/16 08:32	12/28/16 14:33	1
Phenol	1.0	U	1.0	0.16	ug/L		12/22/16 08:32	12/28/16 14:33	1
Pyrene	**0.45**		0.21	0.029	ug/L		12/22/16 08:32	12/28/16 14:33	1
2,4,5-Trichlorophenol	5.2	U	5.2	0.38	ug/L		12/22/16 08:32	12/28/16 14:33	1
2,4,6-Trichlorophenol	5.2	U	5.2	0.27	ug/L		12/22/16 08:32	12/28/16 14:33	1
2,6-Dinitrotoluene	5.2	U	5.2	0.24	ug/L		12/22/16 08:32	12/28/16 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*44 - 120*	*12/22/16 08:32*	*12/28/16 14:33*	*1*
2-Fluorophenol (Surr)	*91*		*26 - 120*	*12/22/16 08:32*	*12/28/16 14:33*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*36 - 120*	*12/22/16 08:32*	*12/28/16 14:33*	*1*
Nitrobenzene-d5 (Surr)	*82*		*44 - 120*	*12/22/16 08:32*	*12/28/16 14:33*	*1*
Phenol-d5 (Surr)	*63*		*16 - 120*	*12/22/16 08:32*	*12/28/16 14:33*	*1*
Terphenyl-d14 (Surr)	*89*		*43 - 120*	*12/22/16 08:32*	*12/28/16 14:33*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/19/16 14:00	12/21/16 18:59	1
Antimony	10	U	10	3.1	ug/L		12/19/16 14:00	12/21/16 18:59	1
Barium	**180**	**J**	200	2.4	ug/L		12/19/16 14:00	12/21/16 18:59	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/19/16 14:00	12/21/16 18:59	1
Calcium	**75000**		5000	710	ug/L		12/19/16 14:00	12/21/16 18:59	1
Cadmium	**0.72**	**J**	2.0	0.29	ug/L		12/19/16 14:00	12/21/16 18:59	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/19/16 14:00	12/21/16 18:59	1
Chromium	**0.75**	**J**	5.0	0.55	ug/L		12/19/16 14:00	12/21/16 18:59	1
Copper	**4.5**	**J**	25	3.9	ug/L		12/19/16 14:00	12/21/16 18:59	1
Iron	**74**	**J**	100	25	ug/L		12/19/16 14:00	12/21/16 18:59	1
Potassium	**3200**	**J**	5000	70	ug/L		12/19/16 14:00	12/21/16 18:59	1
Magnesium	**21000**		5000	230	ug/L		12/19/16 14:00	12/21/16 18:59	1
Manganese	15	U	15	5.1	ug/L		12/19/16 14:00	12/21/16 18:59	1
Silver	5.0	U	5.0	0.92	ug/L		12/19/16 14:00	12/21/16 18:59	1
Sodium	**77000**	**B**	5000	330	ug/L		12/19/16 14:00	12/21/16 18:59	1
Nickel	**4.9**	**J**	40	1.6	ug/L		12/19/16 14:00	12/21/16 18:59	1

Client Sample ID: 20161215UAW24-70V68N
Date Collected: 12/15/16 10:50
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-3
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/19/16 14:00	12/21/16 18:59	1
Zinc	**18**	**J**	50	16	ug/L		12/19/16 14:00	12/21/16 18:59	1
Arsenic	10	U	10	3.3	ug/L		12/19/16 14:00	12/21/16 18:59	1
Lead	5.0	U	5.0	1.9	ug/L		12/19/16 14:00	12/21/16 18:59	1
Selenium	15	U	15	5.1	ug/L		12/19/16 14:00	12/21/16 18:59	1
Thallium	10	U	10	2.1	ug/L		12/19/16 14:00	12/21/16 18:59	1
Tin	**22**	**J**	100	1.8	ug/L		12/19/16 14:00	12/21/16 18:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/19/16 14:00	12/20/16 15:19	1

Client Sample ID: 20161215UAW10-80V77N
Date Collected: 12/15/16 14:50
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/27/16 16:06	1
Benzene	1.0	U	1.0	0.28	ug/L			12/27/16 16:06	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/27/16 16:06	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/27/16 16:06	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/27/16 16:06	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/27/16 16:06	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/27/16 16:06	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/27/16 16:06	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 16:06	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/27/16 16:06	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/27/16 16:06	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/27/16 16:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 16:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/27/16 16:06	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/27/16 16:06	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/27/16 16:06	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/27/16 16:06	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/27/16 16:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/27/16 16:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 16:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/27/16 16:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 16:06	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/27/16 16:06	1
1,2-Dichloroethane	**1.0**		1.0	0.30	ug/L			12/27/16 16:06	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/27/16 16:06	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/27/16 16:06	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/27/16 16:06	1
2-Hexanone	10	U	10	1.2	ug/L			12/27/16 16:06	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/27/16 16:06	1
Methyl acetate	10	U	10	1.4	ug/L			12/27/16 16:06	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/27/16 16:06	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/27/16 16:06	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/27/16 16:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/27/16 16:06	1
Styrene	1.0	U	1.0	0.23	ug/L			12/27/16 16:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/27/16 16:06	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 16:06	1
Toluene	1.0	U	1.0	0.23	ug/L			12/27/16 16:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/27/16 16:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/27/16 16:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/27/16 16:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/27/16 16:06	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/27/16 16:06	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/27/16 16:06	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 16:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/27/16 16:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/27/16 16:06	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/27/16 16:06	1

Client Sample ID: 20161215UAW10-80V77N
Date Collected: 12/15/16 14:50
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*12/27/16 16:06*	*1*
Dibromofluoromethane (Surr)	*85*		*80 - 120*		*12/27/16 16:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*63 - 132*		*12/27/16 16:06*	*1*
Toluene-d8 (Surr)	*81*		*73 - 124*		*12/27/16 16:06*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21	U	0.21	0.046	ug/L		12/22/16 08:32	12/28/16 14:58	1
Acenaphthylene	0.21	U	0.21	0.021	ug/L		12/22/16 08:32	12/28/16 14:58	1
Acetophenone	1.0	U	1.0	0.15	ug/L		12/22/16 08:32	12/28/16 14:58	1
Aniline	5.2	U	5.2	0.23	ug/L		12/22/16 08:32	12/28/16 14:58	1
Anthracene	0.21	U	0.21	0.032	ug/L		12/22/16 08:32	12/28/16 14:58	1
Atrazine	2.1	U	2.1	0.12	ug/L		12/22/16 08:32	12/28/16 14:58	1
Benzaldehyde	2.1	U *	2.1	0.31	ug/L		12/22/16 08:32	12/28/16 14:58	1
Benzo[a]anthracene	0.21	U	0.21	0.061	ug/L		12/22/16 08:32	12/28/16 14:58	1
Benzo[b]fluoranthene	0.21	U	0.21	0.061	ug/L		12/22/16 08:32	12/28/16 14:58	1
Benzo[k]fluoranthene	0.21	U	0.21	0.050	ug/L		12/22/16 08:32	12/28/16 14:58	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.052	ug/L		12/22/16 08:32	12/28/16 14:58	1
Benzo[a]pyrene	0.21	U	0.21	0.031	ug/L		12/22/16 08:32	12/28/16 14:58	1
Butyl benzyl phthalate	1.0	U	1.0	0.23	ug/L		12/22/16 08:32	12/28/16 14:58	1
1,1'-Biphenyl	1.0	U	1.0	0.13	ug/L		12/22/16 08:32	12/28/16 14:58	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.039	ug/L		12/22/16 08:32	12/28/16 14:58	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.20	ug/L		12/22/16 08:32	12/28/16 14:58	1
Bis(2-ethylhexyl) phthalate	2.1	U	2.1	1.6	ug/L		12/22/16 08:32	12/28/16 14:58	1
4-Bromophenyl phenyl ether	2.1	U	2.1	0.36	ug/L		12/22/16 08:32	12/28/16 14:58	1
Caprolactam	5.2	U	5.2	0.39	ug/L		12/22/16 08:32	12/28/16 14:58	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/22/16 08:32	12/28/16 14:58	1
4-Chloroaniline	2.1	U	2.1	0.16	ug/L		12/22/16 08:32	12/28/16 14:58	1
4-Chloro-3-methylphenol	2.1	U	2.1	0.29	ug/L		12/22/16 08:32	12/28/16 14:58	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 14:58	1
2-Chlorophenol	1.0	U	1.0	0.14	ug/L		12/22/16 08:32	12/28/16 14:58	1
4-Chlorophenyl phenyl ether	2.1	U	2.1	0.31	ug/L		12/22/16 08:32	12/28/16 14:58	1
Chrysene	0.21	U	0.21	0.036	ug/L		12/22/16 08:32	12/28/16 14:58	1
2-Methylnaphthalene	0.21	U	0.21	0.039	ug/L		12/22/16 08:32	12/28/16 14:58	1
3 & 4 Methylphenol	2.1	U	2.1	0.35	ug/L		12/22/16 08:32	12/28/16 14:58	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.042	ug/L		12/22/16 08:32	12/28/16 14:58	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/22/16 08:32	12/28/16 14:58	1
3,3'-Dichlorobenzidine	5.2	U	5.2	0.37	ug/L		12/22/16 08:32	12/28/16 14:58	1
2,4-Dichlorophenol	2.1	U	2.1	0.31	ug/L		12/22/16 08:32	12/28/16 14:58	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/22/16 08:32	12/28/16 14:58	1
2,4-Dimethylphenol	2.1	U	2.1	0.33	ug/L		12/22/16 08:32	12/28/16 14:58	1
Dimethyl phthalate	1.0	U	1.0	0.11	ug/L		12/22/16 08:32	12/28/16 14:58	1
4,6-Dinitro-2-methylphenol	5.2	U	5.2	0.55	ug/L		12/22/16 08:32	12/28/16 14:58	1
2,4-Dinitrophenol	42	U	42	6.4	ug/L		12/22/16 08:32	12/28/16 14:58	1
2,4-Dinitrotoluene	5.2	U	5.2	0.27	ug/L		12/22/16 08:32	12/28/16 14:58	1
Di-n-butyl phthalate	**0.89**	**J**	1.0	0.41	ug/L		12/22/16 08:32	12/28/16 14:58	1
Di-n-octyl phthalate	1.0	U	1.0	0.38	ug/L		12/22/16 08:32	12/28/16 14:58	1
Fluoranthene	0.21	U	0.21	0.028	ug/L		12/22/16 08:32	12/28/16 14:58	1
Fluorene	0.21	U	0.21	0.035	ug/L		12/22/16 08:32	12/28/16 14:58	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 14:58	1

Client Sample ID: 20161215UAW10-80V77N
Date Collected: 12/15/16 14:50
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.15	ug/L		12/22/16 08:32	12/28/16 14:58	1
Hexachlorocyclopentadiene	10	U	10	2.6	ug/L		12/22/16 08:32	12/28/16 14:58	1
Hexachloroethane	1.0	U	1.0	0.23	ug/L		12/22/16 08:32	12/28/16 14:58	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.050	ug/L		12/22/16 08:32	12/28/16 14:58	1
Isophorone	1.0	U	1.0	0.044	ug/L		12/22/16 08:32	12/28/16 14:58	1
2-Methylphenol	1.0	U	1.0	0.20	ug/L		12/22/16 08:32	12/28/16 14:58	1
Naphthalene	0.21	U	0.21	0.045	ug/L		12/22/16 08:32	12/28/16 14:58	1
2-Nitroaniline	2.1	U	2.1	0.32	ug/L		12/22/16 08:32	12/28/16 14:58	1
3-Nitroaniline	2.1	U	2.1	0.28	ug/L		12/22/16 08:32	12/28/16 14:58	1
4-Nitroaniline	2.1	U	2.1	0.25	ug/L		12/22/16 08:32	12/28/16 14:58	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 14:58	1
2-Nitrophenol	2.1	U	2.1	0.22	ug/L		12/22/16 08:32	12/28/16 14:58	1
4-Nitrophenol	5.2	U	5.2	0.61	ug/L		12/22/16 08:32	12/28/16 14:58	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 14:58	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.17	ug/L		12/22/16 08:32	12/28/16 14:58	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.19	ug/L		12/22/16 08:32	12/28/16 14:58	1
Pentachlorophenol	42	U	42	5.7	ug/L		12/22/16 08:32	12/28/16 14:58	1
Phenanthrene	0.21	U	0.21	0.032	ug/L		12/22/16 08:32	12/28/16 14:58	1
Phenol	1.0	U	1.0	0.16	ug/L		12/22/16 08:32	12/28/16 14:58	1
Pyrene	0.21	U	0.21	0.029	ug/L		12/22/16 08:32	12/28/16 14:58	1
2,4,5-Trichlorophenol	5.2	U	5.2	0.38	ug/L		12/22/16 08:32	12/28/16 14:58	1
2,4,6-Trichlorophenol	5.2	U	5.2	0.27	ug/L		12/22/16 08:32	12/28/16 14:58	1
2,6-Dinitrotoluene	5.2	U	5.2	0.24	ug/L		12/22/16 08:32	12/28/16 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*44 - 120*	*12/22/16 08:32*	*12/28/16 14:58*	*1*
2-Fluorophenol (Surr)	*76*		*26 - 120*	*12/22/16 08:32*	*12/28/16 14:58*	*1*
2,4,6-Tribromophenol (Surr)	*54*		*36 - 120*	*12/22/16 08:32*	*12/28/16 14:58*	*1*
Nitrobenzene-d5 (Surr)	*73*		*44 - 120*	*12/22/16 08:32*	*12/28/16 14:58*	*1*
Phenol-d5 (Surr)	*56*		*16 - 120*	*12/22/16 08:32*	*12/28/16 14:58*	*1*
Terphenyl-d14 (Surr)	*79*		*43 - 120*	*12/22/16 08:32*	*12/28/16 14:58*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**46**	**J**	200	40	ug/L		12/19/16 14:00	12/21/16 19:12	1
Antimony	10	U	10	3.1	ug/L		12/19/16 14:00	12/21/16 19:12	1
Barium	**48**	**J**	200	2.4	ug/L		12/19/16 14:00	12/21/16 19:12	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/19/16 14:00	12/21/16 19:12	1
Calcium	**22000**		5000	710	ug/L		12/19/16 14:00	12/21/16 19:12	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/19/16 14:00	12/21/16 19:12	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/19/16 14:00	12/21/16 19:12	1
Chromium	5.0	U	5.0	0.55	ug/L		12/19/16 14:00	12/21/16 19:12	1
Copper	25	U	25	3.9	ug/L		12/19/16 14:00	12/21/16 19:12	1
Iron	**77**	**J**	100	25	ug/L		12/19/16 14:00	12/21/16 19:12	1
Potassium	**900**	**J**	5000	70	ug/L		12/19/16 14:00	12/21/16 19:12	1
Magnesium	**1800**	**J**	5000	230	ug/L		12/19/16 14:00	12/21/16 19:12	1
Manganese	**15**		15	5.1	ug/L		12/19/16 14:00	12/21/16 19:12	1
Silver	5.0	U	5.0	0.92	ug/L		12/19/16 14:00	12/21/16 19:12	1
Sodium	**1200**	**J B**	5000	330	ug/L		12/19/16 14:00	12/21/16 19:12	1
Nickel	40	U	40	1.6	ug/L		12/19/16 14:00	12/21/16 19:12	1

Client Sample ID: 20161215UAW10-80V77N
Date Collected: 12/15/16 14:50
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-4
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/19/16 14:00	12/21/16 19:12	1
Zinc	50	U	50	16	ug/L		12/19/16 14:00	12/21/16 19:12	1
Arsenic	**15**		10	3.3	ug/L		12/19/16 14:00	12/21/16 19:12	1
Lead	5.0	U	5.0	1.9	ug/L		12/19/16 14:00	12/21/16 19:12	1
Selenium	15	U	15	5.1	ug/L		12/19/16 14:00	12/21/16 19:12	1
Thallium	10	U	10	2.1	ug/L		12/19/16 14:00	12/21/16 19:12	1
Tin	100	U	100	1.8	ug/L		12/19/16 14:00	12/21/16 19:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/19/16 14:00	12/20/16 15:25	1

Client Sample ID: 20161214MW-EPA-3V14N
Date Collected: 12/14/16 16:15
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/27/16 13:27	1
Benzene	1.0	U	1.0	0.28	ug/L			12/27/16 13:27	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/27/16 13:27	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/27/16 13:27	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/27/16 13:27	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/27/16 13:27	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/27/16 13:27	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/27/16 13:27	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 13:27	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/27/16 13:27	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/27/16 13:27	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/27/16 13:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 13:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/27/16 13:27	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/27/16 13:27	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/27/16 13:27	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/27/16 13:27	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/27/16 13:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/27/16 13:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 13:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/27/16 13:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 13:27	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/27/16 13:27	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/27/16 13:27	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/27/16 13:27	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/27/16 13:27	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/27/16 13:27	1
2-Hexanone	10	U	10	1.2	ug/L			12/27/16 13:27	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/27/16 13:27	1
Methyl acetate	10	U	10	1.4	ug/L			12/27/16 13:27	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/27/16 13:27	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/27/16 13:27	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/27/16 13:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/27/16 13:27	1
Styrene	1.0	U	1.0	0.23	ug/L			12/27/16 13:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/27/16 13:27	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 13:27	1
Toluene	1.0	U	1.0	0.23	ug/L			12/27/16 13:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/27/16 13:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/27/16 13:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/27/16 13:27	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/27/16 13:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/27/16 13:27	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/27/16 13:27	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 13:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/27/16 13:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/27/16 13:27	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/27/16 13:27	1

Client Sample ID: 20161214MW-EPA-3V14N
Date Collected: 12/14/16 16:15
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*12/27/16 13:27*	*1*
Dibromofluoromethane (Surr)	*86*		*80 - 120*		*12/27/16 13:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 132*		*12/27/16 13:27*	*1*
Toluene-d8 (Surr)	*81*		*73 - 124*		*12/27/16 13:27*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/20/16 09:01	12/23/16 16:33	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/20/16 09:01	12/23/16 16:33	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 16:33	1
Aniline	5.0	U	5.0	0.22	ug/L		12/20/16 09:01	12/23/16 16:33	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/20/16 09:01	12/23/16 16:33	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/20/16 09:01	12/23/16 16:33	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/20/16 09:01	12/23/16 16:33	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/20/16 09:01	12/23/16 16:33	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/20/16 09:01	12/23/16 16:33	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/20/16 09:01	12/23/16 16:33	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/20/16 09:01	12/23/16 16:33	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/20/16 09:01	12/23/16 16:33	1
Butyl benzyl phthalate	1.0	U *	1.0	0.22	ug/L		12/20/16 09:01	12/23/16 16:33	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 16:33	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/20/16 09:01	12/23/16 16:33	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/23/16 16:33	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/20/16 09:01	12/23/16 16:33	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/20/16 09:01	12/23/16 16:33	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/20/16 09:01	12/23/16 16:33	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 16:33	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/20/16 09:01	12/23/16 16:33	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/20/16 09:01	12/23/16 16:33	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 16:33	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 16:33	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/20/16 09:01	12/23/16 16:33	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/20/16 09:01	12/23/16 16:33	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/20/16 09:01	12/23/16 16:33	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/20/16 09:01	12/23/16 16:33	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/20/16 09:01	12/23/16 16:33	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 16:33	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/20/16 09:01	12/23/16 16:33	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/20/16 09:01	12/23/16 16:33	1
Diethyl phthalate	1.0	U *	1.0	0.13	ug/L		12/20/16 09:01	12/23/16 16:33	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/20/16 09:01	12/23/16 16:33	1
Dimethyl phthalate	1.0	U *	1.0	0.10	ug/L		12/20/16 09:01	12/23/16 16:33	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/20/16 09:01	12/23/16 16:33	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/20/16 09:01	12/23/16 16:33	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/20/16 09:01	12/23/16 16:33	1
Di-n-butyl phthalate	1.0	U	1.0	0.40	ug/L		12/20/16 09:01	12/23/16 16:33	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/20/16 09:01	12/23/16 16:33	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/20/16 09:01	12/23/16 16:33	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/20/16 09:01	12/23/16 16:33	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 16:33	1

Client Sample ID: 20161214MW-EPA-3V14N — **Lab Sample ID: 240-73513-5**
Date Collected: 12/14/16 16:15 — **Matrix: Water**
Date Received: 12/17/16 08:00

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/23/16 16:33	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/20/16 09:01	12/23/16 16:33	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/20/16 09:01	12/23/16 16:33	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/20/16 09:01	12/23/16 16:33	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/20/16 09:01	12/23/16 16:33	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/23/16 16:33	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/20/16 09:01	12/23/16 16:33	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/20/16 09:01	12/23/16 16:33	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/20/16 09:01	12/23/16 16:33	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/20/16 09:01	12/23/16 16:33	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/23/16 16:33	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/20/16 09:01	12/23/16 16:33	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/20/16 09:01	12/23/16 16:33	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/23/16 16:33	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/20/16 09:01	12/23/16 16:33	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/20/16 09:01	12/23/16 16:33	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/20/16 09:01	12/23/16 16:33	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/20/16 09:01	12/23/16 16:33	1
Phenol	1.0	U	1.0	0.15	ug/L		12/20/16 09:01	12/23/16 16:33	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/20/16 09:01	12/23/16 16:33	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/20/16 09:01	12/23/16 16:33	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/20/16 09:01	12/23/16 16:33	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/20/16 09:01	12/23/16 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*44 - 120*	*12/20/16 09:01*	*12/23/16 16:33*	*1*
2-Fluorophenol (Surr)	*51*		*26 - 120*	*12/20/16 09:01*	*12/23/16 16:33*	*1*
2,4,6-Tribromophenol (Surr)	*33*	*X*	*36 - 120*	*12/20/16 09:01*	*12/23/16 16:33*	*1*
Nitrobenzene-d5 (Surr)	*71*		*44 - 120*	*12/20/16 09:01*	*12/23/16 16:33*	*1*
Phenol-d5 (Surr)	*42*		*16 - 120*	*12/20/16 09:01*	*12/23/16 16:33*	*1*
Terphenyl-d14 (Surr)	*58*		*43 - 120*	*12/20/16 09:01*	*12/23/16 16:33*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U H	0.19	0.042	ug/L		12/23/16 09:03	12/27/16 16:15	1
Acenaphthylene	0.19	U H	0.19	0.019	ug/L		12/23/16 09:03	12/27/16 16:15	1
Acetophenone	0.96	U H	0.96	0.13	ug/L		12/23/16 09:03	12/27/16 16:15	1
Aniline	4.8	U H	4.8	0.21	ug/L		12/23/16 09:03	12/27/16 16:15	1
Anthracene	0.19	U H	0.19	0.030	ug/L		12/23/16 09:03	12/27/16 16:15	1
Atrazine	1.9	U H	1.9	0.11	ug/L		12/23/16 09:03	12/27/16 16:15	1
Benzaldehyde	1.9	U H	1.9	0.28	ug/L		12/23/16 09:03	12/27/16 16:15	1
Benzo[a]anthracene	0.19	U H	0.19	0.057	ug/L		12/23/16 09:03	12/27/16 16:15	1
Benzo[b]fluoranthene	0.19	U H	0.19	0.057	ug/L		12/23/16 09:03	12/27/16 16:15	1
Benzo[k]fluoranthene	0.19	U H	0.19	0.046	ug/L		12/23/16 09:03	12/27/16 16:15	1
Benzo[g,h,i]perylene	0.19	U H	0.19	0.048	ug/L		12/23/16 09:03	12/27/16 16:15	1
Benzo[a]pyrene	0.19	U H	0.19	0.029	ug/L		12/23/16 09:03	12/27/16 16:15	1
Butyl benzyl phthalate	0.96	U H	0.96	0.21	ug/L		12/23/16 09:03	12/27/16 16:15	1
1,1'-Biphenyl	0.96	U H	0.96	0.12	ug/L		12/23/16 09:03	12/27/16 16:15	1
Bis(2-chloroethoxy)methane	0.96	U H	0.96	0.036	ug/L		12/23/16 09:03	12/27/16 16:15	1
Bis(2-chloroethyl)ether	0.96	U H	0.96	0.18	ug/L		12/23/16 09:03	12/27/16 16:15	1

Client Sample ID: 20161214MW-EPA-3V14N
Date Collected: 12/14/16 16:15
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	1.9	U H	1.9	1.5	ug/L		12/23/16 09:03	12/27/16 16:15	1
4-Bromophenyl phenyl ether	1.9	U H	1.9	0.33	ug/L		12/23/16 09:03	12/27/16 16:15	1
Caprolactam	4.8	U H	4.8	0.36	ug/L		12/23/16 09:03	12/27/16 16:15	1
Carbazole	0.96	U H	0.96	0.10	ug/L		12/23/16 09:03	12/27/16 16:15	1
4-Chloroaniline	1.9	U H	1.9	0.14	ug/L		12/23/16 09:03	12/27/16 16:15	1
4-Chloro-3-methylphenol	1.9	U H	1.9	0.27	ug/L		12/23/16 09:03	12/27/16 16:15	1
2-Chloronaphthalene	0.96	U H	0.96	0.11	ug/L		12/23/16 09:03	12/27/16 16:15	1
2-Chlorophenol	0.96	U H	0.96	0.13	ug/L		12/23/16 09:03	12/27/16 16:15	1
4-Chlorophenyl phenyl ether	1.9	U H	1.9	0.28	ug/L		12/23/16 09:03	12/27/16 16:15	1
Chrysene	0.19	U H	0.19	0.034	ug/L		12/23/16 09:03	12/27/16 16:15	1
2-Methylnaphthalene	0.19	U H	0.19	0.036	ug/L		12/23/16 09:03	12/27/16 16:15	1
3 & 4 Methylphenol	1.9	U H	1.9	0.32	ug/L		12/23/16 09:03	12/27/16 16:15	1
Dibenz(a,h)anthracene	0.19	U H	0.19	0.038	ug/L		12/23/16 09:03	12/27/16 16:15	1
Dibenzofuran	0.96	U H	0.96	0.13	ug/L		12/23/16 09:03	12/27/16 16:15	1
3,3'-Dichlorobenzidine	4.8	U H	4.8	0.34	ug/L		12/23/16 09:03	12/27/16 16:15	1
2,4-Dichlorophenol	1.9	U H	1.9	0.28	ug/L		12/23/16 09:03	12/27/16 16:15	1
Diethyl phthalate	**0.41**	**J H B**	0.96	0.12	ug/L		12/23/16 09:03	12/27/16 16:15	1
2,4-Dimethylphenol	1.9	U H	1.9	0.30	ug/L		12/23/16 09:03	12/27/16 16:15	1
Dimethyl phthalate	0.96	U H	0.96	0.097	ug/L		12/23/16 09:03	12/27/16 16:15	1
4,6-Dinitro-2-methylphenol	4.8	U H	4.8	0.50	ug/L		12/23/16 09:03	12/27/16 16:15	1
2,4-Dinitrophenol	38	U H	38	5.9	ug/L		12/23/16 09:03	12/27/16 16:15	1
2,4-Dinitrotoluene	4.8	U H	4.8	0.25	ug/L		12/23/16 09:03	12/27/16 16:15	1
Di-n-butyl phthalate	0.96	U H	0.96	0.38	ug/L		12/23/16 09:03	12/27/16 16:15	1
Di-n-octyl phthalate	0.96	U H	0.96	0.35	ug/L		12/23/16 09:03	12/27/16 16:15	1
Fluoranthene	0.19	U H	0.19	0.026	ug/L		12/23/16 09:03	12/27/16 16:15	1
Fluorene	0.19	U H	0.19	0.033	ug/L		12/23/16 09:03	12/27/16 16:15	1
Hexachlorobenzene	0.96	U H	0.96	0.11	ug/L		12/23/16 09:03	12/27/16 16:15	1
Hexachlorobutadiene	0.96	U H	0.96	0.14	ug/L		12/23/16 09:03	12/27/16 16:15	1
Hexachlorocyclopentadiene	9.6	U H	9.6	2.4	ug/L		12/23/16 09:03	12/27/16 16:15	1
Hexachloroethane	0.96	U H	0.96	0.21	ug/L		12/23/16 09:03	12/27/16 16:15	1
Indeno[1,2,3-cd]pyrene	0.19	U H	0.19	0.046	ug/L		12/23/16 09:03	12/27/16 16:15	1
Isophorone	0.96	U H	0.96	0.040	ug/L		12/23/16 09:03	12/27/16 16:15	1
2-Methylphenol	0.96	U H	0.96	0.18	ug/L		12/23/16 09:03	12/27/16 16:15	1
Naphthalene	0.19	U H	0.19	0.041	ug/L		12/23/16 09:03	12/27/16 16:15	1
2-Nitroaniline	1.9	U H	1.9	0.30	ug/L		12/23/16 09:03	12/27/16 16:15	1
3-Nitroaniline	1.9	U H *	1.9	0.25	ug/L		12/23/16 09:03	12/27/16 16:15	1
4-Nitroaniline	1.9	U H	1.9	0.23	ug/L		12/23/16 09:03	12/27/16 16:15	1
Nitrobenzene	0.96	U H	0.96	0.11	ug/L		12/23/16 09:03	12/27/16 16:15	1
2-Nitrophenol	1.9	U H	1.9	0.20	ug/L		12/23/16 09:03	12/27/16 16:15	1
4-Nitrophenol	4.8	U H	4.8	0.56	ug/L		12/23/16 09:03	12/27/16 16:15	1
N-Nitrosodiphenylamine	0.96	U H	0.96	0.11	ug/L		12/23/16 09:03	12/27/16 16:15	1
N-Nitrosodi-n-propylamine	0.96	U H	0.96	0.15	ug/L		12/23/16 09:03	12/27/16 16:15	1
2,2'-oxybis(1-chloropropane)	0.96	U H	0.96	0.18	ug/L		12/23/16 09:03	12/27/16 16:15	1
Pentachlorophenol	38	U H	38	5.3	ug/L		12/23/16 09:03	12/27/16 16:15	1
Phenanthrene	0.19	U H	0.19	0.030	ug/L		12/23/16 09:03	12/27/16 16:15	1
Phenol	0.96	U H	0.96	0.14	ug/L		12/23/16 09:03	12/27/16 16:15	1
Pyrene	0.19	U H	0.19	0.027	ug/L		12/23/16 09:03	12/27/16 16:15	1
2,4,5-Trichlorophenol	4.8	U H	4.8	0.35	ug/L		12/23/16 09:03	12/27/16 16:15	1
2,4,6-Trichlorophenol	4.8	U H	4.8	0.25	ug/L		12/23/16 09:03	12/27/16 16:15	1

Client Sample ID: 20161214MW-EPA-3V14N
Date Collected: 12/14/16 16:15
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	4.8	U H	4.8	0.23	ug/L		12/23/16 09:03	12/27/16 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*44 - 120*	*12/23/16 09:03*	*12/27/16 16:15*	*1*
2-Fluorophenol (Surr)	*27*		*26 - 120*	*12/23/16 09:03*	*12/27/16 16:15*	*1*
2,4,6-Tribromophenol (Surr)	*9*	*X*	*36 - 120*	*12/23/16 09:03*	*12/27/16 16:15*	*1*
Nitrobenzene-d5 (Surr)	*66*		*44 - 120*	*12/23/16 09:03*	*12/27/16 16:15*	*1*
Phenol-d5 (Surr)	*27*		*16 - 120*	*12/23/16 09:03*	*12/27/16 16:15*	*1*
Terphenyl-d14 (Surr)	*66*		*43 - 120*	*12/23/16 09:03*	*12/27/16 16:15*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1400**		200	40	ug/L		12/19/16 14:00	12/21/16 19:16	1
Antimony	10	U	10	3.1	ug/L		12/19/16 14:00	12/21/16 19:16	1
Barium	**220**		200	2.4	ug/L		12/19/16 14:00	12/21/16 19:16	1
Beryllium	**0.28**	**J**	5.0	0.21	ug/L		12/19/16 14:00	12/21/16 19:16	1
Calcium	**270000**		5000	710	ug/L		12/19/16 14:00	12/21/16 19:16	1
Cadmium	**0.72**	**J**	2.0	0.29	ug/L		12/19/16 14:00	12/21/16 19:16	1
Cobalt	**18**		7.0	0.84	ug/L		12/19/16 14:00	12/21/16 19:16	1
Chromium	**220**		5.0	0.55	ug/L		12/19/16 14:00	12/21/16 19:16	1
Copper	**10**	**J**	25	3.9	ug/L		12/19/16 14:00	12/21/16 19:16	1
Iron	**4300**		100	25	ug/L		12/19/16 14:00	12/21/16 19:16	1
Potassium	**2500**	**J**	5000	70	ug/L		12/19/16 14:00	12/21/16 19:16	1
Magnesium	**93000**		5000	230	ug/L		12/19/16 14:00	12/21/16 19:16	1
Manganese	**910**		15	5.1	ug/L		12/19/16 14:00	12/21/16 19:16	1
Silver	5.0	U	5.0	0.92	ug/L		12/19/16 14:00	12/21/16 19:16	1
Sodium	**84000**	**B**	5000	330	ug/L		12/19/16 14:00	12/21/16 19:16	1
Nickel	**290**		40	1.6	ug/L		12/19/16 14:00	12/21/16 19:16	1
Vanadium	**8.8**	**J**	10	4.4	ug/L		12/19/16 14:00	12/21/16 19:16	1
Zinc	**93**		50	16	ug/L		12/19/16 14:00	12/21/16 19:16	1
Arsenic	10	U	10	3.3	ug/L		12/19/16 14:00	12/21/16 19:16	1
Lead	**3.2**	**J**	5.0	1.9	ug/L		12/19/16 14:00	12/21/16 19:16	1
Selenium	15	U	15	5.1	ug/L		12/19/16 14:00	12/21/16 19:16	1
Thallium	10	U	10	2.1	ug/L		12/19/16 14:00	12/21/16 19:16	1
Tin	**5.8**	**J**	100	1.8	ug/L		12/19/16 14:00	12/21/16 19:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/19/16 14:00	12/20/16 15:27	1

Client Sample ID: 20161214UAW18-20V15N
Date Collected: 12/14/16 17:45
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.1**	**J**	10	1.8	ug/L			12/27/16 13:50	1
Benzene	1.0	U	1.0	0.28	ug/L			12/27/16 13:50	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/27/16 13:50	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/27/16 13:50	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/27/16 13:50	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/27/16 13:50	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/27/16 13:50	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/27/16 13:50	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 13:50	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/27/16 13:50	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/27/16 13:50	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/27/16 13:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 13:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/27/16 13:50	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/27/16 13:50	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/27/16 13:50	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/27/16 13:50	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/27/16 13:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/27/16 13:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 13:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/27/16 13:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 13:50	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/27/16 13:50	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/27/16 13:50	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/27/16 13:50	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/27/16 13:50	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/27/16 13:50	1
2-Hexanone	10	U	10	1.2	ug/L			12/27/16 13:50	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/27/16 13:50	1
Methyl acetate	10	U	10	1.4	ug/L			12/27/16 13:50	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/27/16 13:50	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/27/16 13:50	1
4-Methyl-2-pentanone (MIBK)	**1.3**	**J**	10	0.71	ug/L			12/27/16 13:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/27/16 13:50	1
Styrene	1.0	U	1.0	0.23	ug/L			12/27/16 13:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/27/16 13:50	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 13:50	1
Toluene	1.0	U	1.0	0.23	ug/L			12/27/16 13:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/27/16 13:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/27/16 13:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/27/16 13:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/27/16 13:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/27/16 13:50	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/27/16 13:50	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/27/16 13:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/27/16 13:50	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/27/16 13:50	1

Client Sample ID: 20161214UAW18-20V15N
Date Collected: 12/14/16 17:45
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*12/27/16 13:50*	*1*
Dibromofluoromethane (Surr)	*81*		*80 - 120*		*12/27/16 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*63 - 132*		*12/27/16 13:50*	*1*
Toluene-d8 (Surr)	*80*		*73 - 124*		*12/27/16 13:50*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.042	ug/L		12/20/16 09:01	12/23/16 16:58	1
Acenaphthylene	0.19	U	0.19	0.019	ug/L		12/20/16 09:01	12/23/16 16:58	1
Acetophenone	0.96	U	0.96	0.13	ug/L		12/20/16 09:01	12/23/16 16:58	1
Aniline	4.8	U	4.8	0.21	ug/L		12/20/16 09:01	12/23/16 16:58	1
Anthracene	0.19	U	0.19	0.030	ug/L		12/20/16 09:01	12/23/16 16:58	1
Atrazine	1.9	U	1.9	0.11	ug/L		12/20/16 09:01	12/23/16 16:58	1
Benzaldehyde	1.9	U	1.9	0.28	ug/L		12/20/16 09:01	12/23/16 16:58	1
Benzo[a]anthracene	0.19	U	0.19	0.057	ug/L		12/20/16 09:01	12/23/16 16:58	1
Benzo[b]fluoranthene	**0.45**		0.19	0.057	ug/L		12/20/16 09:01	12/23/16 16:58	1
Benzo[k]fluoranthene	**0.20**		0.19	0.046	ug/L		12/20/16 09:01	12/23/16 16:58	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.048	ug/L		12/20/16 09:01	12/23/16 16:58	1
Benzo[a]pyrene	0.19	U	0.19	0.029	ug/L		12/20/16 09:01	12/23/16 16:58	1
Butyl benzyl phthalate	0.96	U *	0.96	0.21	ug/L		12/20/16 09:01	12/23/16 16:58	1
1,1'-Biphenyl	0.96	U	0.96	0.12	ug/L		12/20/16 09:01	12/23/16 16:58	1
Bis(2-chloroethoxy)methane	0.96	U	0.96	0.036	ug/L		12/20/16 09:01	12/23/16 16:58	1
Bis(2-chloroethyl)ether	0.96	U	0.96	0.18	ug/L		12/20/16 09:01	12/23/16 16:58	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	1.5	ug/L		12/20/16 09:01	12/23/16 16:58	1
4-Bromophenyl phenyl ether	1.9	U	1.9	0.33	ug/L		12/20/16 09:01	12/23/16 16:58	1
Caprolactam	4.8	U	4.8	0.36	ug/L		12/20/16 09:01	12/23/16 16:58	1
Carbazole	0.96	U	0.96	0.10	ug/L		12/20/16 09:01	12/23/16 16:58	1
4-Chloroaniline	1.9	U	1.9	0.14	ug/L		12/20/16 09:01	12/23/16 16:58	1
4-Chloro-3-methylphenol	1.9	U	1.9	0.27	ug/L		12/20/16 09:01	12/23/16 16:58	1
2-Chloronaphthalene	0.96	U	0.96	0.11	ug/L		12/20/16 09:01	12/23/16 16:58	1
2-Chlorophenol	0.96	U	0.96	0.13	ug/L		12/20/16 09:01	12/23/16 16:58	1
4-Chlorophenyl phenyl ether	1.9	U	1.9	0.28	ug/L		12/20/16 09:01	12/23/16 16:58	1
Chrysene	**0.37**		0.19	0.034	ug/L		12/20/16 09:01	12/23/16 16:58	1
2-Methylnaphthalene	0.19	U	0.19	0.036	ug/L		12/20/16 09:01	12/23/16 16:58	1
3 & 4 Methylphenol	1.9	U	1.9	0.32	ug/L		12/20/16 09:01	12/23/16 16:58	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.038	ug/L		12/20/16 09:01	12/23/16 16:58	1
Dibenzofuran	0.96	U	0.96	0.13	ug/L		12/20/16 09:01	12/23/16 16:58	1
3,3'-Dichlorobenzidine	4.8	U	4.8	0.34	ug/L		12/20/16 09:01	12/23/16 16:58	1
2,4-Dichlorophenol	1.9	U	1.9	0.28	ug/L		12/20/16 09:01	12/23/16 16:58	1
Diethyl phthalate	0.96	U *	0.96	0.12	ug/L		12/20/16 09:01	12/23/16 16:58	1
2,4-Dimethylphenol	1.9	U	1.9	0.30	ug/L		12/20/16 09:01	12/23/16 16:58	1
Dimethyl phthalate	0.96	U *	0.96	0.097	ug/L		12/20/16 09:01	12/23/16 16:58	1
4,6-Dinitro-2-methylphenol	4.8	U	4.8	0.50	ug/L		12/20/16 09:01	12/23/16 16:58	1
2,4-Dinitrophenol	38	U	38	5.9	ug/L		12/20/16 09:01	12/23/16 16:58	1
2,4-Dinitrotoluene	4.8	U	4.8	0.25	ug/L		12/20/16 09:01	12/23/16 16:58	1
Di-n-butyl phthalate	0.96	U	0.96	0.38	ug/L		12/20/16 09:01	12/23/16 16:58	1
Di-n-octyl phthalate	0.96	U	0.96	0.35	ug/L		12/20/16 09:01	12/23/16 16:58	1
Fluoranthene	**0.59**		0.19	0.026	ug/L		12/20/16 09:01	12/23/16 16:58	1
Fluorene	0.19	U	0.19	0.033	ug/L		12/20/16 09:01	12/23/16 16:58	1
Hexachlorobenzene	0.96	U	0.96	0.11	ug/L		12/20/16 09:01	12/23/16 16:58	1

Client Sample ID: 20161214UAW18-20V15N — **Lab Sample ID: 240-73513-6**
Date Collected: 12/14/16 17:45 — **Matrix: Water**
Date Received: 12/17/16 08:00

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.96	U	0.96	0.14	ug/L		12/20/16 09:01	12/23/16 16:58	1
Hexachlorocyclopentadiene	9.6	U	9.6	2.4	ug/L		12/20/16 09:01	12/23/16 16:58	1
Hexachloroethane	0.96	U	0.96	0.21	ug/L		12/20/16 09:01	12/23/16 16:58	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.046	ug/L		12/20/16 09:01	12/23/16 16:58	1
Isophorone	0.96	U	0.96	0.040	ug/L		12/20/16 09:01	12/23/16 16:58	1
2-Methylphenol	0.96	U	0.96	0.18	ug/L		12/20/16 09:01	12/23/16 16:58	1
Naphthalene	0.19	U	0.19	0.041	ug/L		12/20/16 09:01	12/23/16 16:58	1
2-Nitroaniline	1.9	U	1.9	0.30	ug/L		12/20/16 09:01	12/23/16 16:58	1
3-Nitroaniline	1.9	U	1.9	0.25	ug/L		12/20/16 09:01	12/23/16 16:58	1
4-Nitroaniline	1.9	U	1.9	0.23	ug/L		12/20/16 09:01	12/23/16 16:58	1
Nitrobenzene	0.96	U	0.96	0.11	ug/L		12/20/16 09:01	12/23/16 16:58	1
2-Nitrophenol	1.9	U	1.9	0.20	ug/L		12/20/16 09:01	12/23/16 16:58	1
4-Nitrophenol	4.8	U	4.8	0.56	ug/L		12/20/16 09:01	12/23/16 16:58	1
N-Nitrosodiphenylamine	0.96	U	0.96	0.11	ug/L		12/20/16 09:01	12/23/16 16:58	1
N-Nitrosodi-n-propylamine	0.96	U	0.96	0.15	ug/L		12/20/16 09:01	12/23/16 16:58	1
2,2'-oxybis(1-chloropropane)	0.96	U	0.96	0.18	ug/L		12/20/16 09:01	12/23/16 16:58	1
Pentachlorophenol	38	U	38	5.3	ug/L		12/20/16 09:01	12/23/16 16:58	1
Phenanthrene	**0.24**		0.19	0.030	ug/L		12/20/16 09:01	12/23/16 16:58	1
Phenol	0.96	U	0.96	0.14	ug/L		12/20/16 09:01	12/23/16 16:58	1
Pyrene	**0.49**		0.19	0.027	ug/L		12/20/16 09:01	12/23/16 16:58	1
2,4,5-Trichlorophenol	4.8	U	4.8	0.35	ug/L		12/20/16 09:01	12/23/16 16:58	1
2,4,6-Trichlorophenol	4.8	U	4.8	0.25	ug/L		12/20/16 09:01	12/23/16 16:58	1
2,6-Dinitrotoluene	4.8	U	4.8	0.23	ug/L		12/20/16 09:01	12/23/16 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*44 - 120*	*12/20/16 09:01*	*12/23/16 16:58*	*1*
2-Fluorophenol (Surr)	*66*		*26 - 120*	*12/20/16 09:01*	*12/23/16 16:58*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*36 - 120*	*12/20/16 09:01*	*12/23/16 16:58*	*1*
Nitrobenzene-d5 (Surr)	*68*		*44 - 120*	*12/20/16 09:01*	*12/23/16 16:58*	*1*
Phenol-d5 (Surr)	*53*		*16 - 120*	*12/20/16 09:01*	*12/23/16 16:58*	*1*
Terphenyl-d14 (Surr)	*58*		*43 - 120*	*12/20/16 09:01*	*12/23/16 16:58*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.25	U H	0.25	0.055	ug/L		12/23/16 09:03	12/27/16 16:40	1
Acenaphthylene	0.25	U H	0.25	0.025	ug/L		12/23/16 09:03	12/27/16 16:40	1
Acetophenone	1.3	U H	1.3	0.18	ug/L		12/23/16 09:03	12/27/16 16:40	1
Aniline	6.3	U H	6.3	0.27	ug/L		12/23/16 09:03	12/27/16 16:40	1
Anthracene	0.25	U H	0.25	0.039	ug/L		12/23/16 09:03	12/27/16 16:40	1
Atrazine	2.5	U H	2.5	0.15	ug/L		12/23/16 09:03	12/27/16 16:40	1
Benzaldehyde	2.5	U H	2.5	0.37	ug/L		12/23/16 09:03	12/27/16 16:40	1
Benzo[a]anthracene	0.25	U H	0.25	0.074	ug/L		12/23/16 09:03	12/27/16 16:40	1
Benzo[b]fluoranthene	0.25	U H	0.25	0.074	ug/L		12/23/16 09:03	12/27/16 16:40	1
Benzo[k]fluoranthene	0.25	U H	0.25	0.060	ug/L		12/23/16 09:03	12/27/16 16:40	1
Benzo[g,h,i]perylene	0.25	U H	0.25	0.063	ug/L		12/23/16 09:03	12/27/16 16:40	1
Benzo[a]pyrene	0.25	U H	0.25	0.038	ug/L		12/23/16 09:03	12/27/16 16:40	1
Butyl benzyl phthalate	1.3	U H	1.3	0.27	ug/L		12/23/16 09:03	12/27/16 16:40	1
1,1'-Biphenyl	1.3	U H	1.3	0.16	ug/L		12/23/16 09:03	12/27/16 16:40	1
Bis(2-chloroethoxy)methane	1.3	U H	1.3	0.046	ug/L		12/23/16 09:03	12/27/16 16:40	1
Bis(2-chloroethyl)ether	1.3	U H	1.3	0.24	ug/L		12/23/16 09:03	12/27/16 16:40	1

Client Sample ID: 20161214UAW18-20V15N
Date Collected: 12/14/16 17:45
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	2.5	U H	2.5	1.9	ug/L		12/23/16 09:03	12/27/16 16:40	1
4-Bromophenyl phenyl ether	2.5	U H	2.5	0.43	ug/L		12/23/16 09:03	12/27/16 16:40	1
Caprolactam	6.3	U H	6.3	0.47	ug/L		12/23/16 09:03	12/27/16 16:40	1
Carbazole	1.3	U H	1.3	0.13	ug/L		12/23/16 09:03	12/27/16 16:40	1
4-Chloroaniline	2.5	U H	2.5	0.19	ug/L		12/23/16 09:03	12/27/16 16:40	1
4-Chloro-3-methylphenol	2.5	U H	2.5	0.35	ug/L		12/23/16 09:03	12/27/16 16:40	1
2-Chloronaphthalene	1.3	U H	1.3	0.14	ug/L		12/23/16 09:03	12/27/16 16:40	1
2-Chlorophenol	1.3	U H	1.3	0.17	ug/L		12/23/16 09:03	12/27/16 16:40	1
4-Chlorophenyl phenyl ether	2.5	U H	2.5	0.37	ug/L		12/23/16 09:03	12/27/16 16:40	1
Chrysene	**0.35**	**H**	0.25	0.044	ug/L		12/23/16 09:03	12/27/16 16:40	1
2-Methylnaphthalene	0.25	U H	0.25	0.046	ug/L		12/23/16 09:03	12/27/16 16:40	1
3 & 4 Methylphenol	2.5	U H	2.5	0.42	ug/L		12/23/16 09:03	12/27/16 16:40	1
Dibenz(a,h)anthracene	0.25	U H	0.25	0.050	ug/L		12/23/16 09:03	12/27/16 16:40	1
Dibenzofuran	1.3	U H	1.3	0.17	ug/L		12/23/16 09:03	12/27/16 16:40	1
3,3'-Dichlorobenzidine	6.3	U H	6.3	0.44	ug/L		12/23/16 09:03	12/27/16 16:40	1
2,4-Dichlorophenol	2.5	U H	2.5	0.37	ug/L		12/23/16 09:03	12/27/16 16:40	1
Diethyl phthalate	**0.56**	**J H B**	1.3	0.16	ug/L		12/23/16 09:03	12/27/16 16:40	1
2,4-Dimethylphenol	2.5	U H	2.5	0.39	ug/L		12/23/16 09:03	12/27/16 16:40	1
Dimethyl phthalate	1.3	U H	1.3	0.13	ug/L		12/23/16 09:03	12/27/16 16:40	1
4,6-Dinitro-2-methylphenol	6.3	U H	6.3	0.66	ug/L		12/23/16 09:03	12/27/16 16:40	1
2,4-Dinitrophenol	50	U H	50	7.7	ug/L		12/23/16 09:03	12/27/16 16:40	1
2,4-Dinitrotoluene	6.3	U H	6.3	0.32	ug/L		12/23/16 09:03	12/27/16 16:40	1
Di-n-butyl phthalate	**0.51**	**J H B**	1.3	0.50	ug/L		12/23/16 09:03	12/27/16 16:40	1
Di-n-octyl phthalate	1.3	U H	1.3	0.46	ug/L		12/23/16 09:03	12/27/16 16:40	1
Fluoranthene	**0.59**	**H**	0.25	0.034	ug/L		12/23/16 09:03	12/27/16 16:40	1
Fluorene	0.25	U H	0.25	0.043	ug/L		12/23/16 09:03	12/27/16 16:40	1
Hexachlorobenzene	1.3	U H	1.3	0.14	ug/L		12/23/16 09:03	12/27/16 16:40	1
Hexachlorobutadiene	1.3	U H	1.3	0.18	ug/L		12/23/16 09:03	12/27/16 16:40	1
Hexachlorocyclopentadiene	13	U H	13	3.1	ug/L		12/23/16 09:03	12/27/16 16:40	1
Hexachloroethane	1.3	U H	1.3	0.27	ug/L		12/23/16 09:03	12/27/16 16:40	1
Indeno[1,2,3-cd]pyrene	0.25	U H	0.25	0.060	ug/L		12/23/16 09:03	12/27/16 16:40	1
Isophorone	1.3	U H	1.3	0.053	ug/L		12/23/16 09:03	12/27/16 16:40	1
2-Methylphenol	1.3	U H	1.3	0.24	ug/L		12/23/16 09:03	12/27/16 16:40	1
Naphthalene	0.25	U H	0.25	0.054	ug/L		12/23/16 09:03	12/27/16 16:40	1
2-Nitroaniline	2.5	U H	2.5	0.39	ug/L		12/23/16 09:03	12/27/16 16:40	1
3-Nitroaniline	2.5	U H *	2.5	0.33	ug/L		12/23/16 09:03	12/27/16 16:40	1
4-Nitroaniline	2.5	U H	2.5	0.30	ug/L		12/23/16 09:03	12/27/16 16:40	1
Nitrobenzene	1.3	U H	1.3	0.15	ug/L		12/23/16 09:03	12/27/16 16:40	1
2-Nitrophenol	2.5	U H	2.5	0.26	ug/L		12/23/16 09:03	12/27/16 16:40	1
4-Nitrophenol	6.3	U H	6.3	0.73	ug/L		12/23/16 09:03	12/27/16 16:40	1
N-Nitrosodiphenylamine	1.3	U H	1.3	0.14	ug/L		12/23/16 09:03	12/27/16 16:40	1
N-Nitrosodi-n-propylamine	1.3	U H	1.3	0.20	ug/L		12/23/16 09:03	12/27/16 16:40	1
2,2'-oxybis(1-chloropropane)	1.3	U H	1.3	0.23	ug/L		12/23/16 09:03	12/27/16 16:40	1
Pentachlorophenol	50	U H	50	6.8	ug/L		12/23/16 09:03	12/27/16 16:40	1
Phenanthrene	0.25	U H	0.25	0.039	ug/L		12/23/16 09:03	12/27/16 16:40	1
Phenol	1.3	U H	1.3	0.19	ug/L		12/23/16 09:03	12/27/16 16:40	1
Pyrene	**0.52**	**H**	0.25	0.035	ug/L		12/23/16 09:03	12/27/16 16:40	1
2,4,5-Trichlorophenol	6.3	U H	6.3	0.46	ug/L		12/23/16 09:03	12/27/16 16:40	1
2,4,6-Trichlorophenol	6.3	U H	6.3	0.33	ug/L		12/23/16 09:03	12/27/16 16:40	1

Client Sample ID: 20161214UAW18-20V15N
Date Collected: 12/14/16 17:45
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	6.3	U H	6.3	0.29	ug/L		12/23/16 09:03	12/27/16 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*44 - 120*	*12/23/16 09:03*	*12/27/16 16:40*	*1*
2-Fluorophenol (Surr)	*73*		*26 - 120*	*12/23/16 09:03*	*12/27/16 16:40*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*36 - 120*	*12/23/16 09:03*	*12/27/16 16:40*	*1*
Nitrobenzene-d5 (Surr)	*74*		*44 - 120*	*12/23/16 09:03*	*12/27/16 16:40*	*1*
Phenol-d5 (Surr)	*59*		*16 - 120*	*12/23/16 09:03*	*12/27/16 16:40*	*1*
Terphenyl-d14 (Surr)	*78*		*43 - 120*	*12/23/16 09:03*	*12/27/16 16:40*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2000**		200	40	ug/L		12/19/16 14:00	12/21/16 19:21	1
Antimony	10	U	10	3.1	ug/L		12/19/16 14:00	12/21/16 19:21	1
Barium	**38**	**J**	200	2.4	ug/L		12/19/16 14:00	12/21/16 19:21	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/19/16 14:00	12/21/16 19:21	1
Calcium	**39000**		5000	710	ug/L		12/19/16 14:00	12/21/16 19:21	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/19/16 14:00	12/21/16 19:21	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/19/16 14:00	12/21/16 19:21	1
Chromium	**6.9**		5.0	0.55	ug/L		12/19/16 14:00	12/21/16 19:21	1
Copper	**16**	**J**	25	3.9	ug/L		12/19/16 14:00	12/21/16 19:21	1
Iron	**2100**		100	25	ug/L		12/19/16 14:00	12/21/16 19:21	1
Potassium	**1800**	**J**	5000	70	ug/L		12/19/16 14:00	12/21/16 19:21	1
Magnesium	**3400**	**J**	5000	230	ug/L		12/19/16 14:00	12/21/16 19:21	1
Manganese	**79**		15	5.1	ug/L		12/19/16 14:00	12/21/16 19:21	1
Silver	5.0	U	5.0	0.92	ug/L		12/19/16 14:00	12/21/16 19:21	1
Sodium	**34000**	**B**	5000	330	ug/L		12/19/16 14:00	12/21/16 19:21	1
Nickel	**7.2**	**J**	40	1.6	ug/L		12/19/16 14:00	12/21/16 19:21	1
Vanadium	**10**		10	4.4	ug/L		12/19/16 14:00	12/21/16 19:21	1
Zinc	**79**		50	16	ug/L		12/19/16 14:00	12/21/16 19:21	1
Arsenic	10	U	10	3.3	ug/L		12/19/16 14:00	12/21/16 19:21	1
Lead	**9.2**		5.0	1.9	ug/L		12/19/16 14:00	12/21/16 19:21	1
Selenium	15	U	15	5.1	ug/L		12/19/16 14:00	12/21/16 19:21	1
Thallium	10	U	10	2.1	ug/L		12/19/16 14:00	12/21/16 19:21	1
Tin	**99**	**J**	100	1.8	ug/L		12/19/16 14:00	12/21/16 19:21	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/19/16 14:00	12/20/16 15:29	1

Client Sample ID: 20161215UAW27-50V43N
Date Collected: 12/15/16 10:45
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/27/16 16:29	1
Benzene	1.0	U	1.0	0.28	ug/L			12/27/16 16:29	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/27/16 16:29	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/27/16 16:29	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/27/16 16:29	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/27/16 16:29	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/27/16 16:29	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/27/16 16:29	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 16:29	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/27/16 16:29	1
Chloroform	**0.38**	**J**	1.0	0.31	ug/L			12/27/16 16:29	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/27/16 16:29	1
cis-1,2-Dichloroethene	**11**		1.0	0.30	ug/L			12/27/16 16:29	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/27/16 16:29	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/27/16 16:29	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/27/16 16:29	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/27/16 16:29	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/27/16 16:29	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/27/16 16:29	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 16:29	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/27/16 16:29	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 16:29	1
1,1-Dichloroethane	**4.3**		1.0	0.25	ug/L			12/27/16 16:29	1
1,2-Dichloroethane	**0.48**	**J**	1.0	0.30	ug/L			12/27/16 16:29	1
1,1-Dichloroethene	**0.77**	**J**	1.0	0.27	ug/L			12/27/16 16:29	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/27/16 16:29	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/27/16 16:29	1
2-Hexanone	10	U	10	1.2	ug/L			12/27/16 16:29	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/27/16 16:29	1
Methyl acetate	10	U	10	1.4	ug/L			12/27/16 16:29	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/27/16 16:29	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/27/16 16:29	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/27/16 16:29	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/27/16 16:29	1
Styrene	1.0	U	1.0	0.23	ug/L			12/27/16 16:29	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/27/16 16:29	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 16:29	1
Toluene	1.0	U	1.0	0.23	ug/L			12/27/16 16:29	1
trans-1,2-Dichloroethene	**0.44**	**J**	1.0	0.29	ug/L			12/27/16 16:29	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/27/16 16:29	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/27/16 16:29	1
1,1,1-Trichloroethane	**5.8**		1.0	0.23	ug/L			12/27/16 16:29	1
1,1,2-Trichloroethane	**0.38**	**J**	1.0	0.34	ug/L			12/27/16 16:29	1
Trichloroethene	**1.4**		1.0	0.33	ug/L			12/27/16 16:29	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 16:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/27/16 16:29	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/27/16 16:29	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/27/16 16:29	1

Client Sample ID: 20161215UAW27-50V43N
Date Collected: 12/15/16 10:45
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*12/27/16 16:29*	*1*
Dibromofluoromethane (Surr)	*83*		*80 - 120*		*12/27/16 16:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*63 - 132*		*12/27/16 16:29*	*1*
Toluene-d8 (Surr)	*81*		*73 - 124*		*12/27/16 16:29*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/22/16 08:32	12/28/16 15:22	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/22/16 08:32	12/28/16 15:22	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/22/16 08:32	12/28/16 15:22	1
Aniline	5.0	U	5.0	0.22	ug/L		12/22/16 08:32	12/28/16 15:22	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/22/16 08:32	12/28/16 15:22	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/22/16 08:32	12/28/16 15:22	1
Benzaldehyde	2.0	U *	2.0	0.30	ug/L		12/22/16 08:32	12/28/16 15:22	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/22/16 08:32	12/28/16 15:22	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/22/16 08:32	12/28/16 15:22	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/22/16 08:32	12/28/16 15:22	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/22/16 08:32	12/28/16 15:22	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/22/16 08:32	12/28/16 15:22	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/22/16 08:32	12/28/16 15:22	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 15:22	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/22/16 08:32	12/28/16 15:22	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/22/16 08:32	12/28/16 15:22	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/22/16 08:32	12/28/16 15:22	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/22/16 08:32	12/28/16 15:22	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/22/16 08:32	12/28/16 15:22	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/22/16 08:32	12/28/16 15:22	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/22/16 08:32	12/28/16 15:22	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/22/16 08:32	12/28/16 15:22	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 15:22	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/22/16 08:32	12/28/16 15:22	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/22/16 08:32	12/28/16 15:22	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/22/16 08:32	12/28/16 15:22	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/22/16 08:32	12/28/16 15:22	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/22/16 08:32	12/28/16 15:22	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/22/16 08:32	12/28/16 15:22	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/22/16 08:32	12/28/16 15:22	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/22/16 08:32	12/28/16 15:22	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/22/16 08:32	12/28/16 15:22	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/22/16 08:32	12/28/16 15:22	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/22/16 08:32	12/28/16 15:22	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/22/16 08:32	12/28/16 15:22	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/22/16 08:32	12/28/16 15:22	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/22/16 08:32	12/28/16 15:22	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/22/16 08:32	12/28/16 15:22	1
Di-n-butyl phthalate	**0.47**	**J**	1.0	0.40	ug/L		12/22/16 08:32	12/28/16 15:22	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/22/16 08:32	12/28/16 15:22	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/22/16 08:32	12/28/16 15:22	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/22/16 08:32	12/28/16 15:22	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 15:22	1

Client Sample ID: 20161215UAW27-50V43N — **Lab Sample ID: 240-73513-7**
Date Collected: 12/15/16 10:45 — **Matrix: Water**
Date Received: 12/17/16 08:00

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/22/16 08:32	12/28/16 15:22	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/22/16 08:32	12/28/16 15:22	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/22/16 08:32	12/28/16 15:22	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/22/16 08:32	12/28/16 15:22	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/22/16 08:32	12/28/16 15:22	1
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/22/16 08:32	12/28/16 15:22	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/22/16 08:32	12/28/16 15:22	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/22/16 08:32	12/28/16 15:22	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/22/16 08:32	12/28/16 15:22	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/22/16 08:32	12/28/16 15:22	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 15:22	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/22/16 08:32	12/28/16 15:22	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/22/16 08:32	12/28/16 15:22	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/22/16 08:32	12/28/16 15:22	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/22/16 08:32	12/28/16 15:22	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/22/16 08:32	12/28/16 15:22	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/22/16 08:32	12/28/16 15:22	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/22/16 08:32	12/28/16 15:22	1
Phenol	1.0	U	1.0	0.15	ug/L		12/22/16 08:32	12/28/16 15:22	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/22/16 08:32	12/28/16 15:22	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/22/16 08:32	12/28/16 15:22	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/22/16 08:32	12/28/16 15:22	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/22/16 08:32	12/28/16 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*44 - 120*	*12/22/16 08:32*	*12/28/16 15:22*	*1*
2-Fluorophenol (Surr)	*92*		*26 - 120*	*12/22/16 08:32*	*12/28/16 15:22*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*36 - 120*	*12/22/16 08:32*	*12/28/16 15:22*	*1*
Nitrobenzene-d5 (Surr)	*76*		*44 - 120*	*12/22/16 08:32*	*12/28/16 15:22*	*1*
Phenol-d5 (Surr)	*76*		*16 - 120*	*12/22/16 08:32*	*12/28/16 15:22*	*1*
Terphenyl-d14 (Surr)	*81*		*43 - 120*	*12/22/16 08:32*	*12/28/16 15:22*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/19/16 14:00	12/21/16 19:25	1
Antimony	10	U	10	3.1	ug/L		12/19/16 14:00	12/21/16 19:25	1
Barium	**41**	**J**	200	2.4	ug/L		12/19/16 14:00	12/21/16 19:25	1
Beryllium	**0.29**	**J**	5.0	0.21	ug/L		12/19/16 14:00	12/21/16 19:25	1
Calcium	**170000**		5000	710	ug/L		12/19/16 14:00	12/21/16 19:25	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/19/16 14:00	12/21/16 19:25	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/19/16 14:00	12/21/16 19:25	1
Chromium	**3.7**	**J**	5.0	0.55	ug/L		12/19/16 14:00	12/21/16 19:25	1
Copper	25	U	25	3.9	ug/L		12/19/16 14:00	12/21/16 19:25	1
Iron	**78**	**J**	100	25	ug/L		12/19/16 14:00	12/21/16 19:25	1
Potassium	**1500**	**J**	5000	70	ug/L		12/19/16 14:00	12/21/16 19:25	1
Magnesium	**52000**		5000	230	ug/L		12/19/16 14:00	12/21/16 19:25	1
Manganese	**33**		15	5.1	ug/L		12/19/16 14:00	12/21/16 19:25	1
Silver	5.0	U	5.0	0.92	ug/L		12/19/16 14:00	12/21/16 19:25	1
Sodium	**40000**	**B**	5000	330	ug/L		12/19/16 14:00	12/21/16 19:25	1
Nickel	**4.4**	**J**	40	1.6	ug/L		12/19/16 14:00	12/21/16 19:25	1

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Client Sample ID: 20161215UAW27-50V43N
Date Collected: 12/15/16 10:45
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-7
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/19/16 14:00	12/21/16 19:25	1
Zinc	50	U	50	16	ug/L		12/19/16 14:00	12/21/16 19:25	1
Arsenic	10	U	10	3.3	ug/L		12/19/16 14:00	12/21/16 19:25	1
Lead	5.0	U	5.0	1.9	ug/L		12/19/16 14:00	12/21/16 19:25	1
Selenium	15	U	15	5.1	ug/L		12/19/16 14:00	12/21/16 19:25	1
Thallium	10	U	10	2.1	ug/L		12/19/16 14:00	12/21/16 19:25	1
Tin	100	U	100	1.8	ug/L		12/19/16 14:00	12/21/16 19:25	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/19/16 14:00	12/20/16 15:31	1

Client Sample ID: 20161215UAW19-80V74N
Date Collected: 12/15/16 14:50
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/27/16 16:51	1
Benzene	1.0	U	1.0	0.28	ug/L			12/27/16 16:51	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/27/16 16:51	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/27/16 16:51	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/27/16 16:51	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/27/16 16:51	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/27/16 16:51	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/27/16 16:51	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 16:51	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/27/16 16:51	1
Chloroform	**0.53**	**J**	1.0	0.31	ug/L			12/27/16 16:51	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/27/16 16:51	1
cis-1,2-Dichloroethene	**13**		1.0	0.30	ug/L			12/27/16 16:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/27/16 16:51	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/27/16 16:51	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/27/16 16:51	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/27/16 16:51	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/27/16 16:51	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/27/16 16:51	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 16:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/27/16 16:51	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 16:51	1
1,1-Dichloroethane	**6.7**		1.0	0.25	ug/L			12/27/16 16:51	1
1,2-Dichloroethane	**14**		1.0	0.30	ug/L			12/27/16 16:51	1
1,1-Dichloroethene	**0.65**	**J**	1.0	0.27	ug/L			12/27/16 16:51	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/27/16 16:51	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/27/16 16:51	1
2-Hexanone	10	U	10	1.2	ug/L			12/27/16 16:51	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/27/16 16:51	1
Methyl acetate	10	U	10	1.4	ug/L			12/27/16 16:51	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/27/16 16:51	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/27/16 16:51	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/27/16 16:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/27/16 16:51	1
Styrene	1.0	U	1.0	0.23	ug/L			12/27/16 16:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/27/16 16:51	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 16:51	1
Toluene	1.0	U	1.0	0.23	ug/L			12/27/16 16:51	1
trans-1,2-Dichloroethene	**0.69**	**J**	1.0	0.29	ug/L			12/27/16 16:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/27/16 16:51	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/27/16 16:51	1
1,1,1-Trichloroethane	**4.6**		1.0	0.23	ug/L			12/27/16 16:51	1
1,1,2-Trichloroethane	**0.43**	**J**	1.0	0.34	ug/L			12/27/16 16:51	1
Trichloroethene	**0.71**	**J**	1.0	0.33	ug/L			12/27/16 16:51	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 16:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/27/16 16:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/27/16 16:51	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/27/16 16:51	1

Client Sample ID: 20161215UAW19-80V74N
Date Collected: 12/15/16 14:50
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*12/27/16 16:51*	*1*
Dibromofluoromethane (Surr)	*83*		*80 - 120*		*12/27/16 16:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*63 - 132*		*12/27/16 16:51*	*1*
Toluene-d8 (Surr)	*78*		*73 - 124*		*12/27/16 16:51*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.21	U	0.21	0.046	ug/L		12/22/16 08:32	12/28/16 15:47	1
Acenaphthylene	0.21	U	0.21	0.021	ug/L		12/22/16 08:32	12/28/16 15:47	1
Acetophenone	1.0	U	1.0	0.15	ug/L		12/22/16 08:32	12/28/16 15:47	1
Aniline	5.2	U	5.2	0.23	ug/L		12/22/16 08:32	12/28/16 15:47	1
Anthracene	0.21	U	0.21	0.032	ug/L		12/22/16 08:32	12/28/16 15:47	1
Atrazine	2.1	U	2.1	0.12	ug/L		12/22/16 08:32	12/28/16 15:47	1
Benzaldehyde	2.1	U *	2.1	0.31	ug/L		12/22/16 08:32	12/28/16 15:47	1
Benzo[a]anthracene	0.21	U	0.21	0.061	ug/L		12/22/16 08:32	12/28/16 15:47	1
Benzo[b]fluoranthene	0.21	U	0.21	0.061	ug/L		12/22/16 08:32	12/28/16 15:47	1
Benzo[k]fluoranthene	0.21	U	0.21	0.050	ug/L		12/22/16 08:32	12/28/16 15:47	1
Benzo[g,h,i]perylene	0.21	U	0.21	0.052	ug/L		12/22/16 08:32	12/28/16 15:47	1
Benzo[a]pyrene	0.21	U	0.21	0.031	ug/L		12/22/16 08:32	12/28/16 15:47	1
Butyl benzyl phthalate	1.0	U	1.0	0.23	ug/L		12/22/16 08:32	12/28/16 15:47	1
1,1'-Biphenyl	1.0	U	1.0	0.13	ug/L		12/22/16 08:32	12/28/16 15:47	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.039	ug/L		12/22/16 08:32	12/28/16 15:47	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.20	ug/L		12/22/16 08:32	12/28/16 15:47	1
Bis(2-ethylhexyl) phthalate	2.1	U	2.1	1.6	ug/L		12/22/16 08:32	12/28/16 15:47	1
4-Bromophenyl phenyl ether	2.1	U	2.1	0.36	ug/L		12/22/16 08:32	12/28/16 15:47	1
Caprolactam	5.2	U	5.2	0.39	ug/L		12/22/16 08:32	12/28/16 15:47	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/22/16 08:32	12/28/16 15:47	1
4-Chloroaniline	2.1	U	2.1	0.16	ug/L		12/22/16 08:32	12/28/16 15:47	1
4-Chloro-3-methylphenol	2.1	U	2.1	0.29	ug/L		12/22/16 08:32	12/28/16 15:47	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 15:47	1
2-Chlorophenol	1.0	U	1.0	0.14	ug/L		12/22/16 08:32	12/28/16 15:47	1
4-Chlorophenyl phenyl ether	2.1	U	2.1	0.31	ug/L		12/22/16 08:32	12/28/16 15:47	1
Chrysene	0.21	U	0.21	0.036	ug/L		12/22/16 08:32	12/28/16 15:47	1
2-Methylnaphthalene	0.21	U	0.21	0.039	ug/L		12/22/16 08:32	12/28/16 15:47	1
3 & 4 Methylphenol	2.1	U	2.1	0.35	ug/L		12/22/16 08:32	12/28/16 15:47	1
Dibenz(a,h)anthracene	0.21	U	0.21	0.042	ug/L		12/22/16 08:32	12/28/16 15:47	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/22/16 08:32	12/28/16 15:47	1
3,3'-Dichlorobenzidine	5.2	U	5.2	0.37	ug/L		12/22/16 08:32	12/28/16 15:47	1
2,4-Dichlorophenol	2.1	U	2.1	0.31	ug/L		12/22/16 08:32	12/28/16 15:47	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/22/16 08:32	12/28/16 15:47	1
2,4-Dimethylphenol	2.1	U	2.1	0.33	ug/L		12/22/16 08:32	12/28/16 15:47	1
Dimethyl phthalate	1.0	U	1.0	0.11	ug/L		12/22/16 08:32	12/28/16 15:47	1
4,6-Dinitro-2-methylphenol	5.2	U	5.2	0.55	ug/L		12/22/16 08:32	12/28/16 15:47	1
2,4-Dinitrophenol	42	U	42	6.4	ug/L		12/22/16 08:32	12/28/16 15:47	1
2,4-Dinitrotoluene	5.2	U	5.2	0.27	ug/L		12/22/16 08:32	12/28/16 15:47	1
Di-n-butyl phthalate	**0.67**	**J**	1.0	0.41	ug/L		12/22/16 08:32	12/28/16 15:47	1
Di-n-octyl phthalate	1.0	U	1.0	0.38	ug/L		12/22/16 08:32	12/28/16 15:47	1
Fluoranthene	0.21	U	0.21	0.028	ug/L		12/22/16 08:32	12/28/16 15:47	1
Fluorene	0.21	U	0.21	0.035	ug/L		12/22/16 08:32	12/28/16 15:47	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 15:47	1

Client Sample ID: 20161215UAW19-80V74N
Date Collected: 12/15/16 14:50
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-8
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	1.0	U	1.0	0.15	ug/L		12/22/16 08:32	12/28/16 15:47	1
Hexachlorocyclopentadiene	10	U	10	2.6	ug/L		12/22/16 08:32	12/28/16 15:47	1
Hexachloroethane	1.0	U	1.0	0.23	ug/L		12/22/16 08:32	12/28/16 15:47	1
Indeno[1,2,3-cd]pyrene	0.21	U	0.21	0.050	ug/L		12/22/16 08:32	12/28/16 15:47	1
Isophorone	1.0	U	1.0	0.044	ug/L		12/22/16 08:32	12/28/16 15:47	1
2-Methylphenol	1.0	U	1.0	0.20	ug/L		12/22/16 08:32	12/28/16 15:47	1
Naphthalene	0.21	U	0.21	0.045	ug/L		12/22/16 08:32	12/28/16 15:47	1
2-Nitroaniline	2.1	U	2.1	0.32	ug/L		12/22/16 08:32	12/28/16 15:47	1
3-Nitroaniline	2.1	U	2.1	0.28	ug/L		12/22/16 08:32	12/28/16 15:47	1
4-Nitroaniline	2.1	U	2.1	0.25	ug/L		12/22/16 08:32	12/28/16 15:47	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 15:47	1
2-Nitrophenol	2.1	U	2.1	0.22	ug/L		12/22/16 08:32	12/28/16 15:47	1
4-Nitrophenol	5.2	U	5.2	0.61	ug/L		12/22/16 08:32	12/28/16 15:47	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 15:47	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.17	ug/L		12/22/16 08:32	12/28/16 15:47	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.19	ug/L		12/22/16 08:32	12/28/16 15:47	1
Pentachlorophenol	42	U	42	5.7	ug/L		12/22/16 08:32	12/28/16 15:47	1
Phenanthrene	0.21	U	0.21	0.032	ug/L		12/22/16 08:32	12/28/16 15:47	1
Phenol	1.0	U	1.0	0.16	ug/L		12/22/16 08:32	12/28/16 15:47	1
Pyrene	0.21	U	0.21	0.029	ug/L		12/22/16 08:32	12/28/16 15:47	1
2,4,5-Trichlorophenol	5.2	U	5.2	0.38	ug/L		12/22/16 08:32	12/28/16 15:47	1
2,4,6-Trichlorophenol	5.2	U	5.2	0.27	ug/L		12/22/16 08:32	12/28/16 15:47	1
2,6-Dinitrotoluene	5.2	U	5.2	0.24	ug/L		12/22/16 08:32	12/28/16 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*44 - 120*	*12/22/16 08:32*	*12/28/16 15:47*	*1*
2-Fluorophenol (Surr)	*85*		*26 - 120*	*12/22/16 08:32*	*12/28/16 15:47*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*36 - 120*	*12/22/16 08:32*	*12/28/16 15:47*	*1*
Nitrobenzene-d5 (Surr)	*81*		*44 - 120*	*12/22/16 08:32*	*12/28/16 15:47*	*1*
Phenol-d5 (Surr)	*56*		*16 - 120*	*12/22/16 08:32*	*12/28/16 15:47*	*1*
Terphenyl-d14 (Surr)	*82*		*43 - 120*	*12/22/16 08:32*	*12/28/16 15:47*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**50**	**J**	200	40	ug/L		12/19/16 14:00	12/21/16 19:29	1
Antimony	10	U	10	3.1	ug/L		12/19/16 14:00	12/21/16 19:29	1
Barium	**64**	**J**	200	2.4	ug/L		12/19/16 14:00	12/21/16 19:29	1
Beryllium	**0.26**	**J**	5.0	0.21	ug/L		12/19/16 14:00	12/21/16 19:29	1
Calcium	**160000**		5000	710	ug/L		12/19/16 14:00	12/21/16 19:29	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/19/16 14:00	12/21/16 19:29	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/19/16 14:00	12/21/16 19:29	1
Chromium	**0.68**	**J**	5.0	0.55	ug/L		12/19/16 14:00	12/21/16 19:29	1
Copper	25	U	25	3.9	ug/L		12/19/16 14:00	12/21/16 19:29	1
Iron	**50**	**J**	100	25	ug/L		12/19/16 14:00	12/21/16 19:29	1
Potassium	**1700**	**J**	5000	70	ug/L		12/19/16 14:00	12/21/16 19:29	1
Magnesium	**48000**		5000	230	ug/L		12/19/16 14:00	12/21/16 19:29	1
Manganese	**17**		15	5.1	ug/L		12/19/16 14:00	12/21/16 19:29	1
Silver	5.0	U	5.0	0.92	ug/L		12/19/16 14:00	12/21/16 19:29	1
Sodium	**66000**	**B**	5000	330	ug/L		12/19/16 14:00	12/21/16 19:29	1
Nickel	40	U	40	1.6	ug/L		12/19/16 14:00	12/21/16 19:29	1

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Client Sample ID: 20161215UAW19-80V74N
Date Collected: 12/15/16 14:50
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-8
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	10	U	10	4.4	ug/L		12/19/16 14:00	12/21/16 19:29	1
Zinc	50	U	50	16	ug/L		12/19/16 14:00	12/21/16 19:29	1
Arsenic	10	U	10	3.3	ug/L		12/19/16 14:00	12/21/16 19:29	1
Lead	5.0	U	5.0	1.9	ug/L		12/19/16 14:00	12/21/16 19:29	1
Selenium	15	U	15	5.1	ug/L		12/19/16 14:00	12/21/16 19:29	1
Thallium	10	U	10	2.1	ug/L		12/19/16 14:00	12/21/16 19:29	1
Tin	100	U	100	1.8	ug/L		12/19/16 14:00	12/21/16 19:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/19/16 14:00	12/20/16 15:33	1

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Client Sample ID: 20161215CINRB-2
Date Collected: 12/15/16 17:00
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/27/16 17:14	1
Benzene	1.0	U	1.0	0.28	ug/L			12/27/16 17:14	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/27/16 17:14	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/27/16 17:14	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/27/16 17:14	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/27/16 17:14	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/27/16 17:14	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/27/16 17:14	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 17:14	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/27/16 17:14	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/27/16 17:14	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/27/16 17:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 17:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/27/16 17:14	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/27/16 17:14	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/27/16 17:14	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/27/16 17:14	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/27/16 17:14	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/27/16 17:14	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 17:14	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/27/16 17:14	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 17:14	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/27/16 17:14	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/27/16 17:14	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/27/16 17:14	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/27/16 17:14	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/27/16 17:14	1
2-Hexanone	10	U	10	1.2	ug/L			12/27/16 17:14	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/27/16 17:14	1
Methyl acetate	10	U	10	1.4	ug/L			12/27/16 17:14	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/27/16 17:14	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/27/16 17:14	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/27/16 17:14	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/27/16 17:14	1
Styrene	1.0	U	1.0	0.23	ug/L			12/27/16 17:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/27/16 17:14	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 17:14	1
Toluene	1.0	U	1.0	0.23	ug/L			12/27/16 17:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/27/16 17:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/27/16 17:14	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/27/16 17:14	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/27/16 17:14	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/27/16 17:14	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/27/16 17:14	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 17:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/27/16 17:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/27/16 17:14	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/27/16 17:14	1

Client Sample ID: 20161215CINRB-2
Date Collected: 12/15/16 17:00
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*12/27/16 17:14*	*1*
Dibromofluoromethane (Surr)	*84*		*80 - 120*		*12/27/16 17:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*63 - 132*		*12/27/16 17:14*	*1*
Toluene-d8 (Surr)	*82*		*73 - 124*		*12/27/16 17:14*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.041	ug/L		12/22/16 08:32	12/28/16 16:11	1
Acenaphthylene	0.19	U	0.19	0.019	ug/L		12/22/16 08:32	12/28/16 16:11	1
Acetophenone	0.93	U	0.93	0.13	ug/L		12/22/16 08:32	12/28/16 16:11	1
Aniline	4.6	U	4.6	0.20	ug/L		12/22/16 08:32	12/28/16 16:11	1
Anthracene	0.19	U	0.19	0.029	ug/L		12/22/16 08:32	12/28/16 16:11	1
Atrazine	1.9	U	1.9	0.11	ug/L		12/22/16 08:32	12/28/16 16:11	1
Benzaldehyde	1.9	U *	1.9	0.27	ug/L		12/22/16 08:32	12/28/16 16:11	1
Benzo[a]anthracene	0.19	U	0.19	0.055	ug/L		12/22/16 08:32	12/28/16 16:11	1
Benzo[b]fluoranthene	0.19	U	0.19	0.055	ug/L		12/22/16 08:32	12/28/16 16:11	1
Benzo[k]fluoranthene	0.19	U	0.19	0.044	ug/L		12/22/16 08:32	12/28/16 16:11	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.046	ug/L		12/22/16 08:32	12/28/16 16:11	1
Benzo[a]pyrene	0.19	U	0.19	0.028	ug/L		12/22/16 08:32	12/28/16 16:11	1
Butyl benzyl phthalate	0.93	U	0.93	0.20	ug/L		12/22/16 08:32	12/28/16 16:11	1
1,1'-Biphenyl	0.93	U	0.93	0.11	ug/L		12/22/16 08:32	12/28/16 16:11	1
Bis(2-chloroethoxy)methane	0.93	U	0.93	0.034	ug/L		12/22/16 08:32	12/28/16 16:11	1
Bis(2-chloroethyl)ether	0.93	U	0.93	0.18	ug/L		12/22/16 08:32	12/28/16 16:11	1
Bis(2-ethylhexyl) phthalate	1.9	U	1.9	1.4	ug/L		12/22/16 08:32	12/28/16 16:11	1
4-Bromophenyl phenyl ether	1.9	U	1.9	0.32	ug/L		12/22/16 08:32	12/28/16 16:11	1
Caprolactam	4.6	U	4.6	0.34	ug/L		12/22/16 08:32	12/28/16 16:11	1
Carbazole	0.93	U	0.93	0.097	ug/L		12/22/16 08:32	12/28/16 16:11	1
4-Chloroaniline	1.9	U	1.9	0.14	ug/L		12/22/16 08:32	12/28/16 16:11	1
4-Chloro-3-methylphenol	1.9	U	1.9	0.26	ug/L		12/22/16 08:32	12/28/16 16:11	1
2-Chloronaphthalene	0.93	U	0.93	0.11	ug/L		12/22/16 08:32	12/28/16 16:11	1
2-Chlorophenol	0.93	U	0.93	0.12	ug/L		12/22/16 08:32	12/28/16 16:11	1
4-Chlorophenyl phenyl ether	1.9	U	1.9	0.27	ug/L		12/22/16 08:32	12/28/16 16:11	1
Chrysene	0.19	U	0.19	0.032	ug/L		12/22/16 08:32	12/28/16 16:11	1
2-Methylnaphthalene	0.19	U	0.19	0.034	ug/L		12/22/16 08:32	12/28/16 16:11	1
3 & 4 Methylphenol	1.9	U	1.9	0.31	ug/L		12/22/16 08:32	12/28/16 16:11	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.037	ug/L		12/22/16 08:32	12/28/16 16:11	1
Dibenzofuran	0.93	U	0.93	0.13	ug/L		12/22/16 08:32	12/28/16 16:11	1
3,3'-Dichlorobenzidine	4.6	U	4.6	0.33	ug/L		12/22/16 08:32	12/28/16 16:11	1
2,4-Dichlorophenol	1.9	U	1.9	0.27	ug/L		12/22/16 08:32	12/28/16 16:11	1
Diethyl phthalate	**0.56**	**J**	0.93	0.12	ug/L		12/22/16 08:32	12/28/16 16:11	1
2,4-Dimethylphenol	1.9	U	1.9	0.29	ug/L		12/22/16 08:32	12/28/16 16:11	1
Dimethyl phthalate	0.93	U	0.93	0.094	ug/L		12/22/16 08:32	12/28/16 16:11	1
4,6-Dinitro-2-methylphenol	4.6	U	4.6	0.49	ug/L		12/22/16 08:32	12/28/16 16:11	1
2,4-Dinitrophenol	37	U	37	5.7	ug/L		12/22/16 08:32	12/28/16 16:11	1
2,4-Dinitrotoluene	4.6	U	4.6	0.24	ug/L		12/22/16 08:32	12/28/16 16:11	1
Di-n-butyl phthalate	**0.81**	**J**	0.93	0.37	ug/L		12/22/16 08:32	12/28/16 16:11	1
Di-n-octyl phthalate	0.93	U	0.93	0.34	ug/L		12/22/16 08:32	12/28/16 16:11	1
Fluoranthene	0.19	U	0.19	0.025	ug/L		12/22/16 08:32	12/28/16 16:11	1
Fluorene	0.19	U	0.19	0.031	ug/L		12/22/16 08:32	12/28/16 16:11	1
Hexachlorobenzene	0.93	U	0.93	0.11	ug/L		12/22/16 08:32	12/28/16 16:11	1

Client Sample ID: 20161215CINRB-2
Date Collected: 12/15/16 17:00
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-9
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.93	U	0.93	0.13	ug/L		12/22/16 08:32	12/28/16 16:11	1
Hexachlorocyclopentadiene	9.3	U	9.3	2.3	ug/L		12/22/16 08:32	12/28/16 16:11	1
Hexachloroethane	0.93	U	0.93	0.20	ug/L		12/22/16 08:32	12/28/16 16:11	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.044	ug/L		12/22/16 08:32	12/28/16 16:11	1
Isophorone	0.93	U	0.93	0.039	ug/L		12/22/16 08:32	12/28/16 16:11	1
2-Methylphenol	0.93	U	0.93	0.17	ug/L		12/22/16 08:32	12/28/16 16:11	1
Naphthalene	0.19	U	0.19	0.040	ug/L		12/22/16 08:32	12/28/16 16:11	1
2-Nitroaniline	1.9	U	1.9	0.29	ug/L		12/22/16 08:32	12/28/16 16:11	1
3-Nitroaniline	1.9	U	1.9	0.25	ug/L		12/22/16 08:32	12/28/16 16:11	1
4-Nitroaniline	1.9	U	1.9	0.22	ug/L		12/22/16 08:32	12/28/16 16:11	1
Nitrobenzene	0.93	U	0.93	0.11	ug/L		12/22/16 08:32	12/28/16 16:11	1
2-Nitrophenol	1.9	U	1.9	0.19	ug/L		12/22/16 08:32	12/28/16 16:11	1
4-Nitrophenol	4.6	U	4.6	0.54	ug/L		12/22/16 08:32	12/28/16 16:11	1
N-Nitrosodiphenylamine	0.93	U	0.93	0.10	ug/L		12/22/16 08:32	12/28/16 16:11	1
N-Nitrosodi-n-propylamine	0.93	U	0.93	0.15	ug/L		12/22/16 08:32	12/28/16 16:11	1
2,2'-oxybis(1-chloropropane)	0.93	U	0.93	0.17	ug/L		12/22/16 08:32	12/28/16 16:11	1
Pentachlorophenol	37	U	37	5.1	ug/L		12/22/16 08:32	12/28/16 16:11	1
Phenanthrene	0.19	U	0.19	0.029	ug/L		12/22/16 08:32	12/28/16 16:11	1
Phenol	0.93	U	0.93	0.14	ug/L		12/22/16 08:32	12/28/16 16:11	1
Pyrene	0.19	U	0.19	0.026	ug/L		12/22/16 08:32	12/28/16 16:11	1
2,4,5-Trichlorophenol	4.6	U	4.6	0.34	ug/L		12/22/16 08:32	12/28/16 16:11	1
2,4,6-Trichlorophenol	4.6	U	4.6	0.24	ug/L		12/22/16 08:32	12/28/16 16:11	1
2,6-Dinitrotoluene	4.6	U	4.6	0.22	ug/L		12/22/16 08:32	12/28/16 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*44 - 120*	*12/22/16 08:32*	*12/28/16 16:11*	*1*
2-Fluorophenol (Surr)	*75*		*26 - 120*	*12/22/16 08:32*	*12/28/16 16:11*	*1*
2,4,6-Tribromophenol (Surr)	*47*		*36 - 120*	*12/22/16 08:32*	*12/28/16 16:11*	*1*
Nitrobenzene-d5 (Surr)	*74*		*44 - 120*	*12/22/16 08:32*	*12/28/16 16:11*	*1*
Phenol-d5 (Surr)	*53*		*16 - 120*	*12/22/16 08:32*	*12/28/16 16:11*	*1*
Terphenyl-d14 (Surr)	*81*		*43 - 120*	*12/22/16 08:32*	*12/28/16 16:11*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**120**	**J**	200	40	ug/L		12/19/16 14:00	12/21/16 19:34	1
Antimony	10	U	10	3.1	ug/L		12/19/16 14:00	12/21/16 19:34	1
Barium	**7.7**	**J**	200	2.4	ug/L		12/19/16 14:00	12/21/16 19:34	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/19/16 14:00	12/21/16 19:34	1
Calcium	**800**	**J**	5000	710	ug/L		12/19/16 14:00	12/21/16 19:34	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/19/16 14:00	12/21/16 19:34	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/19/16 14:00	12/21/16 19:34	1
Chromium	**0.64**	**J**	5.0	0.55	ug/L		12/19/16 14:00	12/21/16 19:34	1
Copper	**9.0**	**J**	25	3.9	ug/L		12/19/16 14:00	12/21/16 19:34	1
Iron	**54**	**J**	100	25	ug/L		12/19/16 14:00	12/21/16 19:34	1
Potassium	5000	U	5000	70	ug/L		12/19/16 14:00	12/21/16 19:34	1
Magnesium	5000	U	5000	230	ug/L		12/19/16 14:00	12/21/16 19:34	1
Manganese	15	U	15	5.1	ug/L		12/19/16 14:00	12/21/16 19:34	1
Silver	5.0	U	5.0	0.92	ug/L		12/19/16 14:00	12/21/16 19:34	1
Sodium	**1500**	**J B**	5000	330	ug/L		12/19/16 14:00	12/21/16 19:34	1
Nickel	40	U	40	1.6	ug/L		12/19/16 14:00	12/21/16 19:34	1

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Client Sample ID: 20161215CINRB-2
Date Collected: 12/15/16 17:00
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-9
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	5.4	J	10	4.4	ug/L		12/19/16 14:00	12/21/16 19:34	1
Zinc	50	U	50	16	ug/L		12/19/16 14:00	12/21/16 19:34	1
Arsenic	10	U	10	3.3	ug/L		12/19/16 14:00	12/21/16 19:34	1
Lead	5.0	U	5.0	1.9	ug/L		12/19/16 14:00	12/21/16 19:34	1
Selenium	15	U	15	5.1	ug/L		12/19/16 14:00	12/21/16 19:34	1
Thallium	10	U	10	2.1	ug/L		12/19/16 14:00	12/21/16 19:34	1
Tin	6.4	J	100	1.8	ug/L		12/19/16 14:00	12/21/16 19:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.090	ug/L		12/19/16 14:00	12/20/16 15:35	1

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Client Sample ID: TRIP BLANK
Date Collected: 12/14/16 00:00
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/27/16 14:13	1
Benzene	1.0	U	1.0	0.28	ug/L			12/27/16 14:13	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/27/16 14:13	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/27/16 14:13	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/27/16 14:13	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/27/16 14:13	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/27/16 14:13	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/27/16 14:13	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 14:13	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/27/16 14:13	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/27/16 14:13	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/27/16 14:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 14:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/27/16 14:13	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/27/16 14:13	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/27/16 14:13	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/27/16 14:13	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/27/16 14:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/27/16 14:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 14:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/27/16 14:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 14:13	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/27/16 14:13	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/27/16 14:13	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/27/16 14:13	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/27/16 14:13	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/27/16 14:13	1
2-Hexanone	10	U	10	1.2	ug/L			12/27/16 14:13	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/27/16 14:13	1
Methyl acetate	10	U	10	1.4	ug/L			12/27/16 14:13	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/27/16 14:13	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/27/16 14:13	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/27/16 14:13	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/27/16 14:13	1
Styrene	1.0	U	1.0	0.23	ug/L			12/27/16 14:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/27/16 14:13	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 14:13	1
Toluene	1.0	U	1.0	0.23	ug/L			12/27/16 14:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/27/16 14:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/27/16 14:13	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/27/16 14:13	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/27/16 14:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/27/16 14:13	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/27/16 14:13	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 14:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/27/16 14:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/27/16 14:13	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/27/16 14:13	1

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Client Sample ID: TRIP BLANK
Date Collected: 12/14/16 00:00
Date Received: 12/17/16 08:00

Lab Sample ID: 240-73513-10
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		73 - 120		12/27/16 14:13	1
Dibromofluoromethane (Surr)	86		80 - 120		12/27/16 14:13	1
1,2-Dichloroethane-d4 (Surr)	82		63 - 132		12/27/16 14:13	1
Toluene-d8 (Surr)	80		73 - 124		12/27/16 14:13	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(73-120)	(80-120)	(63-132)	(73-124)
240-73513-1	20161214UAW10-50V50N	94	81	79	78
240-73513-2	20161214UAW22-20V16N	96	84	80	81
240-73513-3	20161215UAW24-70V68N	92	83	79	80
240-73513-4	20161215UAW10-80V77N	93	85	80	81
240-73513-5	20161214MW-EPA-3V14N	94	86	82	81
240-73513-6	20161214UAW18-20V15N	98	81	79	80
240-73513-7	20161215UAW27-50V43N	92	83	79	81
240-73513-8	20161215UAW19-80V74N	90	83	78	78
240-73513-9	20161215CINRB-2	93	84	80	82
240-73513-10	TRIP BLANK	95	86	82	80
240-73543-A-1 MSD	Matrix Spike Duplicate	103	82	82	83
240-73543-C-1 MS	Matrix Spike	97	80	82	80
LCS 240-260921/4	Lab Control Sample	98	82	76	81
MB 240-260921/7	Method Blank	96	86	81	81

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(44-120)	(26-120)	(36-120)	(44-120)	(16-120)	(43-120)
240-73513-1	20161214UAW10-50V50N	59	57	41	63	49	47
240-73513-1 - RE	20161214UAW10-50V50N	64	56	45	70	49	64
240-73513-2	20161214UAW22-20V16N	59	43	49	66	37	35 X
240-73513-2 - RE	20161214UAW22-20V16N	54	12 X	15 X	60	17	63
240-73513-3	20161215UAW24-70V68N	71	91	60	82	63	89
240-73513-4	20161215UAW10-80V77N	65	76	54	73	56	79
240-73513-5	20161214MW-EPA-3V14N	64	51	33 X	71	42	58
240-73513-5 - RE	20161214MW-EPA-3V14N	61	27	9 X	66	27	66
240-73513-6	20161214UAW18-20V15N	64	66	60	68	53	58
240-73513-6 - RE	20161214UAW18-20V15N	67	73	62	74	59	78
240-73513-7	20161215UAW27-50V43N	64	92	49	76	76	81
240-73513-8	20161215UAW19-80V74N	69	85	49	81	56	82
240-73513-9	20161215CINRB-2	64	75	47	74	53	81
LCS 240-260234/17-A	Lab Control Sample	75	61	72	83	55	88
LCS 240-260580/7-A	Lab Control Sample	90	93	80	96	74	95
LCS 240-260765/18-A	Lab Control Sample	99	116	92	103	72	109
LCSD 240-260234/18-A	Lab Control Sample Dup	69	68	66	76	54	79
LCSD 240-260580/8-A	Lab Control Sample Dup	92	105	82	100	77	97
LCSD 240-260765/19-A	Lab Control Sample Dup	93	77	76	97	63	112
MB 240-260234/16-A	Method Blank	61	53	47	65	47	72
MB 240-260580/6-A	Method Blank	70	77	47	73	58	78
MB 240-260765/17-A	Method Blank	65	58	51	68	35	75

Surrogate Summary

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-260921/7
Matrix: Water
Analysis Batch: 260921

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	1.8	ug/L			12/27/16 11:10	1
Benzene	1.0	U	1.0	0.28	ug/L			12/27/16 11:10	1
Bromodichloromethane	1.0	U	1.0	0.30	ug/L			12/27/16 11:10	1
Bromoform	1.0	U	1.0	0.43	ug/L			12/27/16 11:10	1
Bromomethane	1.0	U	1.0	0.42	ug/L			12/27/16 11:10	1
2-Butanone (MEK)	10	U	10	1.0	ug/L			12/27/16 11:10	1
Carbon disulfide	1.0	U	1.0	0.34	ug/L			12/27/16 11:10	1
Carbon tetrachloride	1.0	U	1.0	0.35	ug/L			12/27/16 11:10	1
Chlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 11:10	1
Chloroethane	1.0	U	1.0	0.41	ug/L			12/27/16 11:10	1
Chloroform	1.0	U	1.0	0.31	ug/L			12/27/16 11:10	1
Chloromethane	1.0	U	1.0	0.43	ug/L			12/27/16 11:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 11:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			12/27/16 11:10	1
Cyclohexane	1.0	U	1.0	0.44	ug/L			12/27/16 11:10	1
Dibromochloromethane	1.0	U	1.0	0.25	ug/L			12/27/16 11:10	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.47	ug/L			12/27/16 11:10	1
1,2-Dibromoethane	1.0	U	1.0	0.23	ug/L			12/27/16 11:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.26	ug/L			12/27/16 11:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.32	ug/L			12/27/16 11:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	ug/L			12/27/16 11:10	1
Dichlorodifluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 11:10	1
1,1-Dichloroethane	1.0	U	1.0	0.25	ug/L			12/27/16 11:10	1
1,2-Dichloroethane	1.0	U	1.0	0.30	ug/L			12/27/16 11:10	1
1,1-Dichloroethene	1.0	U	1.0	0.27	ug/L			12/27/16 11:10	1
1,2-Dichloropropane	1.0	U	1.0	0.30	ug/L			12/27/16 11:10	1
Ethylbenzene	1.0	U	1.0	0.26	ug/L			12/27/16 11:10	1
2-Hexanone	10	U	10	1.2	ug/L			12/27/16 11:10	1
Isopropylbenzene	1.0	U	1.0	0.21	ug/L			12/27/16 11:10	1
Methyl acetate	10	U	10	1.4	ug/L			12/27/16 11:10	1
Methylcyclohexane	1.0	U	1.0	0.45	ug/L			12/27/16 11:10	1
Methylene Chloride	1.0	U	1.0	0.53	ug/L			12/27/16 11:10	1
4-Methyl-2-pentanone (MIBK)	10	U	10	0.71	ug/L			12/27/16 11:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.27	ug/L			12/27/16 11:10	1
Styrene	1.0	U	1.0	0.23	ug/L			12/27/16 11:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.32	ug/L			12/27/16 11:10	1
Tetrachloroethene	1.0	U	1.0	0.30	ug/L			12/27/16 11:10	1
Toluene	1.0	U	1.0	0.23	ug/L			12/27/16 11:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/27/16 11:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.31	ug/L			12/27/16 11:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.27	ug/L			12/27/16 11:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/27/16 11:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.34	ug/L			12/27/16 11:10	1
Trichloroethene	1.0	U	1.0	0.33	ug/L			12/27/16 11:10	1
Trichlorofluoromethane	1.0	U	1.0	0.50	ug/L			12/27/16 11:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.41	ug/L			12/27/16 11:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/27/16 11:10	1
Xylenes, Total	2.0	U	2.0	0.24	ug/L			12/27/16 11:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*12/27/16 11:10*	*1*
Dibromofluoromethane (Surr)	*86*		*80 - 120*		*12/27/16 11:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*63 - 132*		*12/27/16 11:10*	*1*
Toluene-d8 (Surr)	*81*		*73 - 124*		*12/27/16 11:10*	*1*

Lab Sample ID: LCS 240-260921/4
Matrix: Water
Analysis Batch: 260921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	16.3		ug/L		81	46 - 120
Benzene	10.0	8.61		ug/L		86	80 - 120
Bromodichloromethane	10.0	8.95		ug/L		90	76 - 125
Bromoform	10.0	9.65		ug/L		97	52 - 157
Bromomethane	10.0	5.18		ug/L		52	24 - 160
2-Butanone (MEK)	20.0	18.0		ug/L		90	54 - 122
Carbon disulfide	10.0	9.27		ug/L		93	58 - 160
Carbon tetrachloride	10.0	9.85		ug/L		98	69 - 149
Chlorobenzene	10.0	8.94		ug/L		89	80 - 120
Chloroethane	10.0	4.18		ug/L		42	24 - 147
Chloroform	10.0	8.53		ug/L		85	80 - 120
Chloromethane	10.0	7.04		ug/L		70	50 - 135
cis-1,2-Dichloroethene	10.0	8.62		ug/L		86	80 - 120
cis-1,3-Dichloropropene	10.0	9.10		ug/L		91	75 - 120
Cyclohexane	10.0	10.3		ug/L		103	66 - 135
1,2-Dibromo-3-Chloropropane	10.0	7.94		ug/L		79	46 - 140
1,2-Dibromoethane	10.0	8.87		ug/L		89	80 - 126
1,2-Dichlorobenzene	10.0	8.77		ug/L		88	80 - 120
1,3-Dichlorobenzene	10.0	9.21		ug/L		92	80 - 120
1,4-Dichlorobenzene	10.0	9.33		ug/L		93	80 - 120
Dichlorodifluoromethane	10.0	7.85		ug/L		79	32 - 140
1,1-Dichloroethane	10.0	8.47		ug/L		85	77 - 121
1,2-Dichloroethane	10.0	8.52		ug/L		85	76 - 130
1,1-Dichloroethene	10.0	9.88		ug/L		99	70 - 141
1,2-Dichloropropane	10.0	8.89		ug/L		89	79 - 121
Ethylbenzene	10.0	9.43		ug/L		94	80 - 120
2-Hexanone	20.0	15.3		ug/L		76	56 - 124
Isopropylbenzene	10.0	10.6		ug/L		106	80 - 120
Methyl acetate	50.0	44.3		ug/L		89	65 - 124
Methylcyclohexane	10.0	10.6		ug/L		106	71 - 122
Methylene Chloride	10.0	9.48		ug/L		95	68 - 136
4-Methyl-2-pentanone (MIBK)	20.0	16.6		ug/L		83	60 - 131
Methyl tert-butyl ether	10.0	8.68		ug/L		87	75 - 126
Styrene	10.0	10.0		ug/L		100	80 - 120
1,1,2,2-Tetrachloroethane	10.0	9.32		ug/L		93	61 - 130
Tetrachloroethene	10.0	9.54		ug/L		95	80 - 123
Toluene	10.0	8.40		ug/L		84	80 - 121
trans-1,2-Dichloroethene	10.0	9.25		ug/L		92	80 - 123
trans-1,3-Dichloropropene	10.0	7.75		ug/L		78	65 - 120
1,2,4-Trichlorobenzene	10.0	7.90		ug/L		79	53 - 137
1,1,1-Trichloroethane	10.0	9.02		ug/L		90	79 - 133
1,1,2-Trichloroethane	10.0	8.16		ug/L		82	80 - 120
Trichloroethene	10.0	9.14		ug/L		91	80 - 122
Trichlorofluoromethane	10.0	8.05		ug/L		80	56 - 161

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260921/4
Matrix: Water
Analysis Batch: 260921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,2-Trichloro-1,2,2-trifluoroethane			10.0	10.4		ug/L		104	65 - 151		
Vinyl chloride			10.0	7.24		ug/L		72	60 - 129		
Xylenes, Total			20.0	19.5		ug/L		98	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*82*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*76*		*63 - 132*
Toluene-d8 (Surr)	*81*		*73 - 124*

Lab Sample ID: 240-73543-A-1 MSD
Matrix: Water
Analysis Batch: 260921

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	1.0	U	10.0	8.55		ug/L		86	67 - 126	5	31
Ethylbenzene	1.0	U	10.0	9.42		ug/L		94	66 - 123	7	34
Toluene	1.0	U	10.0	8.63		ug/L		86	63 - 130	7	33
Xylenes, Total	2.0	U	20.0	19.8		ug/L		99	60 - 126	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*82*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 132*
Toluene-d8 (Surr)	*83*		*73 - 124*

Lab Sample ID: 240-73543-C-1 MS
Matrix: Water
Analysis Batch: 260921

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	1.0	U	10.0	8.16		ug/L		82	67 - 126		
Ethylbenzene	1.0	U	10.0	8.83		ug/L		88	66 - 123		
Toluene	1.0	U	10.0	8.05		ug/L		80	63 - 130		
Xylenes, Total	2.0	U	20.0	18.2		ug/L		91	60 - 126		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*80*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 132*
Toluene-d8 (Surr)	*80*		*73 - 124*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-260234/16-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/20/16 09:01	12/22/16 08:27	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/20/16 09:01	12/22/16 08:27	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/22/16 08:27	1
Aniline	5.0	U	5.0	0.22	ug/L		12/20/16 09:01	12/22/16 08:27	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/20/16 09:01	12/22/16 08:27	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/20/16 09:01	12/22/16 08:27	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/20/16 09:01	12/22/16 08:27	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/20/16 09:01	12/22/16 08:27	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/20/16 09:01	12/22/16 08:27	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/20/16 09:01	12/22/16 08:27	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/20/16 09:01	12/22/16 08:27	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/20/16 09:01	12/22/16 08:27	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/20/16 09:01	12/22/16 08:27	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/22/16 08:27	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/20/16 09:01	12/22/16 08:27	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/22/16 08:27	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/20/16 09:01	12/22/16 08:27	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/20/16 09:01	12/22/16 08:27	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/20/16 09:01	12/22/16 08:27	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/22/16 08:27	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/20/16 09:01	12/22/16 08:27	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/20/16 09:01	12/22/16 08:27	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/22/16 08:27	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/20/16 09:01	12/22/16 08:27	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/20/16 09:01	12/22/16 08:27	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/20/16 09:01	12/22/16 08:27	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/20/16 09:01	12/22/16 08:27	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/20/16 09:01	12/22/16 08:27	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/20/16 09:01	12/22/16 08:27	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/22/16 08:27	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/20/16 09:01	12/22/16 08:27	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/20/16 09:01	12/22/16 08:27	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/20/16 09:01	12/22/16 08:27	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/20/16 09:01	12/22/16 08:27	1
Di-n-butyl phthalate	1.0	U	1.0	0.40	ug/L		12/20/16 09:01	12/22/16 08:27	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/20/16 09:01	12/22/16 08:27	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/20/16 09:01	12/22/16 08:27	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/20/16 09:01	12/22/16 08:27	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/22/16 08:27	1
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/20/16 09:01	12/22/16 08:27	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/20/16 09:01	12/22/16 08:27	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/20/16 09:01	12/22/16 08:27	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/20/16 09:01	12/22/16 08:27	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/20/16 09:01	12/22/16 08:27	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-260234/16-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/20/16 09:01	12/22/16 08:27	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/20/16 09:01	12/22/16 08:27	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/20/16 09:01	12/22/16 08:27	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/20/16 09:01	12/22/16 08:27	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/20/16 09:01	12/22/16 08:27	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/20/16 09:01	12/22/16 08:27	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/20/16 09:01	12/22/16 08:27	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/20/16 09:01	12/22/16 08:27	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/20/16 09:01	12/22/16 08:27	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/20/16 09:01	12/22/16 08:27	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/20/16 09:01	12/22/16 08:27	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/20/16 09:01	12/22/16 08:27	1
Phenol	1.0	U	1.0	0.15	ug/L		12/20/16 09:01	12/22/16 08:27	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/20/16 09:01	12/22/16 08:27	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/20/16 09:01	12/22/16 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*44 - 120*	*12/20/16 09:01*	*12/22/16 08:27*	*1*
2-Fluorophenol (Surr)	*53*		*26 - 120*	*12/20/16 09:01*	*12/22/16 08:27*	*1*
2,4,6-Tribromophenol (Surr)	*47*		*36 - 120*	*12/20/16 09:01*	*12/22/16 08:27*	*1*
Nitrobenzene-d5 (Surr)	*65*		*44 - 120*	*12/20/16 09:01*	*12/22/16 08:27*	*1*
Phenol-d5 (Surr)	*47*		*16 - 120*	*12/20/16 09:01*	*12/22/16 08:27*	*1*
Terphenyl-d14 (Surr)	*72*		*43 - 120*	*12/20/16 09:01*	*12/22/16 08:27*	*1*

Lab Sample ID: LCS 240-260234/17-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	22.8		ug/L		71	58 - 120
Acenaphthylene	32.0	22.4		ug/L		70	59 - 120
Acetophenone	32.0	24.9		ug/L		78	62 - 120
Aniline	32.0	25.4		ug/L		79	10 - 120
Anthracene	32.0	24.2		ug/L		76	58 - 120
Atrazine	32.0	26.8		ug/L		84	61 - 120
Benzaldehyde	32.0	30.9		ug/L		97	10 - 120
Benzo[a]anthracene	32.0	23.9		ug/L		75	58 - 120
Benzo[b]fluoranthene	32.0	27.6		ug/L		86	59 - 120
Benzo[k]fluoranthene	32.0	27.1		ug/L		85	61 - 120
Benzo[g,h,i]perylene	32.0	30.5		ug/L		95	41 - 127
Benzo[a]pyrene	32.0	29.1		ug/L		91	63 - 120
Butyl benzyl phthalate	32.0	20.8		ug/L		65	60 - 120
1,1'-Biphenyl	32.0	21.9		ug/L		68	53 - 120
Bis(2-chloroethoxy)methane	32.0	23.5		ug/L		73	63 - 120
Bis(2-chloroethyl)ether	32.0	23.0		ug/L		72	57 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260234/17-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	32.0	26.7		ug/L		83	62 - 120
4-Bromophenyl phenyl ether	32.0	23.6		ug/L		74	55 - 120
Caprolactam	32.0	15.9		ug/L		50	10 - 120
Carbazole	32.0	25.7		ug/L		80	59 - 120
4-Chloroaniline	32.0	27.5		ug/L		86	10 - 120
4-Chloro-3-methylphenol	32.0	25.3		ug/L		79	59 - 120
2-Chloronaphthalene	32.0	21.7		ug/L		68	56 - 120
2-Chlorophenol	32.0	23.3		ug/L		73	62 - 120
4-Chlorophenyl phenyl ether	32.0	23.1		ug/L		72	57 - 120
Chrysene	32.0	23.3		ug/L		73	59 - 120
2-Methylnaphthalene	32.0	21.5		ug/L		67	57 - 120
3 & 4 Methylphenol	32.0	22.0		ug/L		69	53 - 120
Dibenz(a,h)anthracene	32.0	30.6		ug/L		96	39 - 125
Dibenzofuran	32.0	22.9		ug/L		72	58 - 120
3,3'-Dichlorobenzidine	64.0	57.0		ug/L		89	10 - 120
2,4-Dichlorophenol	32.0	22.1		ug/L		69	63 - 120
Diethyl phthalate	32.0	19.9	*	ug/L		62	64 - 120
2,4-Dimethylphenol	32.0	23.4		ug/L		73	41 - 120
Dimethyl phthalate	32.0	15.3	*	ug/L		48	63 - 120
4,6-Dinitro-2-methylphenol	64.0	47.1		ug/L		74	40 - 120
2,4-Dinitrophenol	64.0	38.3	J	ug/L		60	20 - 120
2,4-Dinitrotoluene	32.0	23.9		ug/L		75	62 - 120
Di-n-butyl phthalate	32.0	22.4		ug/L		70	58 - 120
Di-n-octyl phthalate	32.0	27.1		ug/L		85	58 - 128
Fluoranthene	32.0	24.3		ug/L		76	59 - 120
Fluorene	32.0	23.5		ug/L		73	57 - 120
Hexachlorobenzene	32.0	21.6		ug/L		68	48 - 120
Hexachlorobutadiene	32.0	17.7		ug/L		55	47 - 120
Hexachlorocyclopentadiene	32.0	12.2		ug/L		38	24 - 120
Hexachloroethane	32.0	18.7		ug/L		58	48 - 120
Indeno[1,2,3-cd]pyrene	32.0	31.2		ug/L		97	49 - 121
Isophorone	32.0	23.8		ug/L		74	66 - 120
2-Methylphenol	32.0	24.8		ug/L		78	55 - 120
Naphthalene	32.0	22.1		ug/L		69	58 - 120
2-Nitroaniline	32.0	26.6		ug/L		83	62 - 120
3-Nitroaniline	32.0	48.4		ug/L		151	10 - 171
4-Nitroaniline	32.0	31.3		ug/L		98	32 - 132
Nitrobenzene	32.0	24.6		ug/L		77	63 - 120
2-Nitrophenol	32.0	24.7		ug/L		77	65 - 120
4-Nitrophenol	64.0	31.6		ug/L		49	18 - 120
N-Nitrosodiphenylamine	32.0	24.1		ug/L		75	54 - 120
N-Nitrosodi-n-propylamine	32.0	24.8		ug/L		77	63 - 120
2,2'-oxybis(1-chloropropane)	32.0	24.5		ug/L		77	61 - 120
Pentachlorophenol	64.0	31.4	J	ug/L		49	33 - 120
Phenanthrene	32.0	23.1		ug/L		72	57 - 120
Phenol	32.0	16.5		ug/L		52	21 - 120
Pyrene	32.0	23.8		ug/L		74	57 - 120
2,4,5-Trichlorophenol	32.0	21.8		ug/L		68	61 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260234/17-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260234

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,6-Trichlorophenol			32.0	24.1		ug/L		75	57 - 120		
2,6-Dinitrotoluene			32.0	25.8		ug/L		81	63 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*44 - 120*
2-Fluorophenol (Surr)	*61*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*72*		*36 - 120*
Nitrobenzene-d5 (Surr)	*83*		*44 - 120*
Phenol-d5 (Surr)	*55*		*16 - 120*
Terphenyl-d14 (Surr)	*88*		*43 - 120*

Lab Sample ID: LCSD 240-260234/18-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260234

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			32.0	20.8		ug/L		65	58 - 120	9	35
Acenaphthylene			32.0	20.6		ug/L		64	59 - 120	9	35
Acetophenone			32.0	22.8		ug/L		71	62 - 120	9	35
Aniline			32.0	22.9		ug/L		72	10 - 120	11	35
Anthracene			32.0	21.9		ug/L		68	58 - 120	10	35
Atrazine			32.0	24.3		ug/L		76	61 - 120	9	35
Benzaldehyde			32.0	26.4		ug/L		83	10 - 120	16	35
Benzo[a]anthracene			32.0	21.7		ug/L		68	58 - 120	10	35
Benzo[b]fluoranthene			32.0	25.0		ug/L		78	59 - 120	10	35
Benzo[k]fluoranthene			32.0	24.0		ug/L		75	61 - 120	12	35
Benzo[g,h,i]perylene			32.0	26.5		ug/L		83	41 - 127	14	35
Benzo[a]pyrene			32.0	25.9		ug/L		81	63 - 120	12	35
Butyl benzyl phthalate			32.0	18.8	*	ug/L		59	60 - 120	10	35
1,1'-Biphenyl			32.0	20.2		ug/L		63	53 - 120	8	35
Bis(2-chloroethoxy)methane			32.0	22.0		ug/L		69	63 - 120	7	35
Bis(2-chloroethyl)ether			32.0	20.8		ug/L		65	57 - 120	10	35
Bis(2-ethylhexyl) phthalate			32.0	24.3		ug/L		76	62 - 120	9	35
4-Bromophenyl phenyl ether			32.0	21.4		ug/L		67	55 - 120	9	35
Caprolactam			32.0	15.3		ug/L		48	10 - 120	4	35
Carbazole			32.0	23.4		ug/L		73	59 - 120	10	35
4-Chloroaniline			32.0	25.6		ug/L		80	10 - 120	7	35
4-Chloro-3-methylphenol			32.0	23.2		ug/L		72	59 - 120	9	35
2-Chloronaphthalene			32.0	20.2		ug/L		63	56 - 120	7	35
2-Chlorophenol			32.0	22.2		ug/L		69	62 - 120	5	35
4-Chlorophenyl phenyl ether			32.0	21.1		ug/L		66	57 - 120	9	35
Chrysene			32.0	21.3		ug/L		67	59 - 120	9	35
2-Methylnaphthalene			32.0	20.1		ug/L		63	57 - 120	7	35
3 & 4 Methylphenol			32.0	20.8		ug/L		65	53 - 120	5	35
Dibenz(a,h)anthracene			32.0	27.1		ug/L		85	39 - 125	12	35
Dibenzofuran			32.0	20.8		ug/L		65	58 - 120	10	35
3,3'-Dichlorobenzidine			64.0	52.4		ug/L		82	10 - 120	8	35
2,4-Dichlorophenol			32.0	20.9		ug/L		65	63 - 120	6	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 240-260234/18-A
Matrix: Water
Analysis Batch: 260556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260234

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diethyl phthalate			32.0	18.1	*	ug/L		57	64 - 120	9	35
2,4-Dimethylphenol			32.0	22.3		ug/L		70	41 - 120	5	35
Dimethyl phthalate			32.0	13.6	*	ug/L		42	63 - 120	12	35
4,6-Dinitro-2-methylphenol			64.0	42.6		ug/L		67	40 - 120	10	35
2,4-Dinitrophenol			64.0	36.3	J	ug/L		57	20 - 120	5	35
2,4-Dinitrotoluene			32.0	21.7		ug/L		68	62 - 120	10	35
Di-n-butyl phthalate			32.0	20.6		ug/L		64	58 - 120	8	35
Di-n-octyl phthalate			32.0	24.5		ug/L		77	58 - 128	10	35
Fluoranthene			32.0	21.9		ug/L		69	59 - 120	10	35
Fluorene			32.0	21.3		ug/L		66	57 - 120	10	35
Hexachlorobenzene			32.0	19.5		ug/L		61	48 - 120	10	35
Hexachlorobutadiene			32.0	16.5		ug/L		52	47 - 120	7	35
Hexachlorocyclopentadiene			32.0	11.9		ug/L		37	24 - 120	3	35
Hexachloroethane			32.0	16.7		ug/L		52	48 - 120	11	35
Indeno[1,2,3-cd]pyrene			32.0	27.6		ug/L		86	49 - 121	12	35
Isophorone			32.0	22.0		ug/L		69	66 - 120	8	35
2-Methylphenol			32.0	22.8		ug/L		71	55 - 120	8	35
Naphthalene			32.0	20.5		ug/L		64	58 - 120	7	35
2-Nitroaniline			32.0	24.3		ug/L		76	62 - 120	9	35
3-Nitroaniline			32.0	44.0		ug/L		137	10 - 171	9	35
4-Nitroaniline			32.0	28.6		ug/L		89	32 - 132	9	35
Nitrobenzene			32.0	22.8		ug/L		71	63 - 120	8	35
2-Nitrophenol			32.0	23.3		ug/L		73	65 - 120	6	35
4-Nitrophenol			64.0	30.5		ug/L		48	18 - 120	4	35
N-Nitrosodiphenylamine			32.0	22.0		ug/L		69	54 - 120	9	35
N-Nitrosodi-n-propylamine			32.0	22.8		ug/L		71	63 - 120	8	35
2,2'-oxybis(1-chloropropane)			32.0	22.3		ug/L		70	61 - 120	9	35
Pentachlorophenol			64.0	28.9	J	ug/L		45	33 - 120	8	35
Phenanthrene			32.0	20.9		ug/L		65	57 - 120	10	35
Phenol			32.0	16.2		ug/L		51	21 - 120	2	35
Pyrene			32.0	21.7		ug/L		68	57 - 120	9	35
2,4,5-Trichlorophenol			32.0	20.3		ug/L		63	61 - 120	7	35
2,4,6-Trichlorophenol			32.0	22.1		ug/L		69	57 - 120	9	35
2,6-Dinitrotoluene			32.0	23.3		ug/L		73	63 - 120	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*69*		*44 - 120*
2-Fluorophenol (Surr)	*68*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*66*		*36 - 120*
Nitrobenzene-d5 (Surr)	*76*		*44 - 120*
Phenol-d5 (Surr)	*54*		*16 - 120*
Terphenyl-d14 (Surr)	*79*		*43 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-260580/6-A
Matrix: Water
Analysis Batch: 261056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/22/16 08:32	12/28/16 08:27	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/22/16 08:32	12/28/16 08:27	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/22/16 08:32	12/28/16 08:27	1
Aniline	5.0	U	5.0	0.22	ug/L		12/22/16 08:32	12/28/16 08:27	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/22/16 08:32	12/28/16 08:27	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/22/16 08:32	12/28/16 08:27	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/22/16 08:32	12/28/16 08:27	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/22/16 08:32	12/28/16 08:27	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/22/16 08:32	12/28/16 08:27	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/22/16 08:32	12/28/16 08:27	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/22/16 08:32	12/28/16 08:27	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/22/16 08:32	12/28/16 08:27	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/22/16 08:32	12/28/16 08:27	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 08:27	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/22/16 08:32	12/28/16 08:27	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/22/16 08:32	12/28/16 08:27	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/22/16 08:32	12/28/16 08:27	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/22/16 08:32	12/28/16 08:27	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/22/16 08:32	12/28/16 08:27	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/22/16 08:32	12/28/16 08:27	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/22/16 08:32	12/28/16 08:27	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/22/16 08:32	12/28/16 08:27	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 08:27	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/22/16 08:32	12/28/16 08:27	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/22/16 08:32	12/28/16 08:27	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/22/16 08:32	12/28/16 08:27	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/22/16 08:32	12/28/16 08:27	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/22/16 08:32	12/28/16 08:27	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/22/16 08:32	12/28/16 08:27	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/22/16 08:32	12/28/16 08:27	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/22/16 08:32	12/28/16 08:27	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/22/16 08:32	12/28/16 08:27	1
Diethyl phthalate	1.0	U	1.0	0.13	ug/L		12/22/16 08:32	12/28/16 08:27	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/22/16 08:32	12/28/16 08:27	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/22/16 08:32	12/28/16 08:27	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/22/16 08:32	12/28/16 08:27	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/22/16 08:32	12/28/16 08:27	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/22/16 08:32	12/28/16 08:27	1
Di-n-butyl phthalate	1.0	U	1.0	0.40	ug/L		12/22/16 08:32	12/28/16 08:27	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/22/16 08:32	12/28/16 08:27	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/22/16 08:32	12/28/16 08:27	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/22/16 08:32	12/28/16 08:27	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 08:27	1
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/22/16 08:32	12/28/16 08:27	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/22/16 08:32	12/28/16 08:27	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/22/16 08:32	12/28/16 08:27	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/22/16 08:32	12/28/16 08:27	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/22/16 08:32	12/28/16 08:27	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-260580/6-A
Matrix: Water
Analysis Batch: 261056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260580

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/22/16 08:32	12/28/16 08:27	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/22/16 08:32	12/28/16 08:27	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/22/16 08:32	12/28/16 08:27	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/22/16 08:32	12/28/16 08:27	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/22/16 08:32	12/28/16 08:27	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/22/16 08:32	12/28/16 08:27	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/22/16 08:32	12/28/16 08:27	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/22/16 08:32	12/28/16 08:27	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/22/16 08:32	12/28/16 08:27	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/22/16 08:32	12/28/16 08:27	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/22/16 08:32	12/28/16 08:27	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/22/16 08:32	12/28/16 08:27	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/22/16 08:32	12/28/16 08:27	1
Phenol	1.0	U	1.0	0.15	ug/L		12/22/16 08:32	12/28/16 08:27	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/22/16 08:32	12/28/16 08:27	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/22/16 08:32	12/28/16 08:27	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/22/16 08:32	12/28/16 08:27	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/22/16 08:32	12/28/16 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*44 - 120*	*12/22/16 08:32*	*12/28/16 08:27*	*1*
2-Fluorophenol (Surr)	*77*		*26 - 120*	*12/22/16 08:32*	*12/28/16 08:27*	*1*
2,4,6-Tribromophenol (Surr)	*47*		*36 - 120*	*12/22/16 08:32*	*12/28/16 08:27*	*1*
Nitrobenzene-d5 (Surr)	*73*		*44 - 120*	*12/22/16 08:32*	*12/28/16 08:27*	*1*
Phenol-d5 (Surr)	*58*		*16 - 120*	*12/22/16 08:32*	*12/28/16 08:27*	*1*
Terphenyl-d14 (Surr)	*78*		*43 - 120*	*12/22/16 08:32*	*12/28/16 08:27*	*1*

Lab Sample ID: LCS 240-260580/7-A
Matrix: Water
Analysis Batch: 261056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	26.2		ug/L		82	58 - 120
Acenaphthylene	32.0	26.1		ug/L		82	59 - 120
Acetophenone	32.0	31.5		ug/L		99	62 - 120
Aniline	32.0	28.9		ug/L		90	10 - 120
Anthracene	32.0	27.0		ug/L		84	58 - 120
Atrazine	32.0	32.8		ug/L		103	61 - 120
Benzaldehyde	32.0	44.7	*	ug/L		140	10 - 120
Benzo[a]anthracene	32.0	27.5		ug/L		86	58 - 120
Benzo[b]fluoranthene	32.0	28.7		ug/L		90	59 - 120
Benzo[k]fluoranthene	32.0	29.7		ug/L		93	61 - 120
Benzo[g,h,i]perylene	32.0	26.2		ug/L		82	41 - 127
Benzo[a]pyrene	32.0	30.4		ug/L		95	63 - 120
Butyl benzyl phthalate	32.0	29.8		ug/L		93	60 - 120
1,1'-Biphenyl	32.0	25.5		ug/L		80	53 - 120
Bis(2-chloroethoxy)methane	32.0	27.6		ug/L		86	63 - 120
Bis(2-chloroethyl)ether	32.0	31.7		ug/L		99	57 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260580/7-A
Matrix: Water
Analysis Batch: 261056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	32.0	29.4		ug/L		92	62 - 120
4-Bromophenyl phenyl ether	32.0	26.7		ug/L		84	55 - 120
Caprolactam	32.0	18.3		ug/L		57	10 - 120
Carbazole	32.0	25.7		ug/L		80	59 - 120
4-Chloroaniline	32.0	30.5		ug/L		95	10 - 120
4-Chloro-3-methylphenol	32.0	29.6		ug/L		92	59 - 120
2-Chloronaphthalene	32.0	25.9		ug/L		81	56 - 120
2-Chlorophenol	32.0	29.3		ug/L		92	62 - 120
4-Chlorophenyl phenyl ether	32.0	27.3		ug/L		85	57 - 120
Chrysene	32.0	26.7		ug/L		83	59 - 120
2-Methylnaphthalene	32.0	25.9		ug/L		81	57 - 120
3 & 4 Methylphenol	32.0	28.1		ug/L		88	53 - 120
Dibenz(a,h)anthracene	32.0	27.2		ug/L		85	39 - 125
Dibenzofuran	32.0	26.5		ug/L		83	58 - 120
3,3'-Dichlorobenzidine	64.0	65.1		ug/L		102	10 - 120
2,4-Dichlorophenol	32.0	26.6		ug/L		83	63 - 120
Diethyl phthalate	32.0	27.6		ug/L		86	64 - 120
2,4-Dimethylphenol	32.0	26.2		ug/L		82	41 - 120
Dimethyl phthalate	32.0	28.5		ug/L		89	63 - 120
4,6-Dinitro-2-methylphenol	64.0	46.0		ug/L		72	40 - 120
2,4-Dinitrophenol	64.0	35.6	J	ug/L		56	20 - 120
2,4-Dinitrotoluene	32.0	26.7		ug/L		83	62 - 120
Di-n-butyl phthalate	32.0	27.8		ug/L		87	58 - 120
Di-n-octyl phthalate	32.0	28.2		ug/L		88	58 - 128
Fluoranthene	32.0	27.6		ug/L		86	59 - 120
Fluorene	32.0	26.8		ug/L		84	57 - 120
Hexachlorobenzene	32.0	25.2		ug/L		79	48 - 120
Hexachlorobutadiene	32.0	24.8		ug/L		78	47 - 120
Hexachlorocyclopentadiene	32.0	18.2		ug/L		57	24 - 120
Hexachloroethane	32.0	24.3		ug/L		76	48 - 120
Indeno[1,2,3-cd]pyrene	32.0	28.3		ug/L		89	49 - 121
Isophorone	32.0	27.9		ug/L		87	66 - 120
2-Methylphenol	32.0	31.7		ug/L		99	55 - 120
Naphthalene	32.0	25.9		ug/L		81	58 - 120
2-Nitroaniline	32.0	30.6		ug/L		96	62 - 120
3-Nitroaniline	32.0	44.8		ug/L		140	10 - 171
4-Nitroaniline	32.0	30.9		ug/L		96	32 - 132
Nitrobenzene	32.0	29.1		ug/L		91	63 - 120
2-Nitrophenol	32.0	29.0		ug/L		90	65 - 120
4-Nitrophenol	64.0	33.7		ug/L		53	18 - 120
N-Nitrosodiphenylamine	32.0	26.4		ug/L		83	54 - 120
N-Nitrosodi-n-propylamine	32.0	31.5		ug/L		98	63 - 120
2,2'-oxybis(1-chloropropane)	32.0	30.0		ug/L		94	61 - 120
Pentachlorophenol	64.0	28.4	J	ug/L		44	33 - 120
Phenanthrene	32.0	25.9		ug/L		81	57 - 120
Phenol	32.0	22.3		ug/L		70	21 - 120
Pyrene	32.0	26.5		ug/L		83	57 - 120
2,4,5-Trichlorophenol	32.0	25.6		ug/L		80	61 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260580/7-A
Matrix: Water
Analysis Batch: 261056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260580

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,6-Trichlorophenol			32.0	27.8		ug/L		87	57 - 120		
2,6-Dinitrotoluene			32.0	28.8		ug/L		90	63 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*90*		*44 - 120*
2-Fluorophenol (Surr)	*93*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*80*		*36 - 120*
Nitrobenzene-d5 (Surr)	*96*		*44 - 120*
Phenol-d5 (Surr)	*74*		*16 - 120*
Terphenyl-d14 (Surr)	*95*		*43 - 120*

Lab Sample ID: LCSD 240-260580/8-A
Matrix: Water
Analysis Batch: 261056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260580

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			32.0	27.6		ug/L		86	58 - 120	5	35
Acenaphthylene			32.0	27.7		ug/L		87	59 - 120	6	35
Acetophenone			32.0	31.2		ug/L		97	62 - 120	1	35
Aniline			32.0	27.9		ug/L		87	10 - 120	4	35
Anthracene			32.0	28.1		ug/L		88	58 - 120	4	35
Atrazine			32.0	33.0		ug/L		103	61 - 120	0	35
Benzaldehyde			32.0	35.6		ug/L		111	10 - 120	23	35
Benzo[a]anthracene			32.0	28.4		ug/L		89	58 - 120	3	35
Benzo[b]fluoranthene			32.0	30.8		ug/L		96	59 - 120	7	35
Benzo[k]fluoranthene			32.0	31.9		ug/L		100	61 - 120	7	35
Benzo[g,h,i]perylene			32.0	27.8		ug/L		87	41 - 127	6	35
Benzo[a]pyrene			32.0	32.6		ug/L		102	63 - 120	7	35
Butyl benzyl phthalate			32.0	31.1		ug/L		97	60 - 120	4	35
1,1'-Biphenyl			32.0	27.5		ug/L		86	53 - 120	7	35
Bis(2-chloroethoxy)methane			32.0	28.6		ug/L		89	63 - 120	3	35
Bis(2-chloroethyl)ether			32.0	31.1		ug/L		97	57 - 120	2	35
Bis(2-ethylhexyl) phthalate			32.0	30.1		ug/L		94	62 - 120	2	35
4-Bromophenyl phenyl ether			32.0	27.9		ug/L		87	55 - 120	4	35
Caprolactam			32.0	19.4		ug/L		61	10 - 120	6	35
Carbazole			32.0	28.0		ug/L		87	59 - 120	8	35
4-Chloroaniline			32.0	29.6		ug/L		92	10 - 120	3	35
4-Chloro-3-methylphenol			32.0	30.5		ug/L		95	59 - 120	3	35
2-Chloronaphthalene			32.0	27.7		ug/L		86	56 - 120	7	35
2-Chlorophenol			32.0	30.1		ug/L		94	62 - 120	3	35
4-Chlorophenyl phenyl ether			32.0	28.4		ug/L		89	57 - 120	4	35
Chrysene			32.0	27.7		ug/L		87	59 - 120	4	35
2-Methylnaphthalene			32.0	27.6		ug/L		86	57 - 120	6	35
3 & 4 Methylphenol			32.0	28.5		ug/L		89	53 - 120	1	35
Dibenz(a,h)anthracene			32.0	29.2		ug/L		91	39 - 125	7	35
Dibenzofuran			32.0	27.9		ug/L		87	58 - 120	5	35
3,3'-Dichlorobenzidine			64.0	66.5		ug/L		104	10 - 120	2	35
2,4-Dichlorophenol			32.0	28.1		ug/L		88	63 - 120	5	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 240-260580/8-A
Matrix: Water
Analysis Batch: 261056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260580

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diethyl phthalate			32.0	28.6		ug/L		90	64 - 120	4	35
2,4-Dimethylphenol			32.0	27.4		ug/L		86	41 - 120	5	35
Dimethyl phthalate			32.0	29.4		ug/L		92	63 - 120	3	35
4,6-Dinitro-2-methylphenol			64.0	47.9		ug/L		75	40 - 120	4	35
2,4-Dinitrophenol			64.0	36.9	J	ug/L		58	20 - 120	4	35
2,4-Dinitrotoluene			32.0	27.6		ug/L		86	62 - 120	3	35
Di-n-butyl phthalate			32.0	28.4		ug/L		89	58 - 120	2	35
Di-n-octyl phthalate			32.0	30.3		ug/L		95	58 - 128	7	35
Fluoranthene			32.0	28.2		ug/L		88	59 - 120	2	35
Fluorene			32.0	27.9		ug/L		87	57 - 120	4	35
Hexachlorobenzene			32.0	26.0		ug/L		81	48 - 120	3	35
Hexachlorobutadiene			32.0	26.8		ug/L		84	47 - 120	8	35
Hexachlorocyclopentadiene			32.0	19.0		ug/L		59	24 - 120	4	35
Hexachloroethane			32.0	26.4		ug/L		82	48 - 120	8	35
Indeno[1,2,3-cd]pyrene			32.0	30.1		ug/L		94	49 - 121	6	35
Isophorone			32.0	28.9		ug/L		90	66 - 120	4	35
2-Methylphenol			32.0	31.3		ug/L		98	55 - 120	1	35
Naphthalene			32.0	27.0		ug/L		85	58 - 120	4	35
2-Nitroaniline			32.0	32.0		ug/L		100	62 - 120	4	35
3-Nitroaniline			32.0	38.9		ug/L		122	10 - 171	14	35
4-Nitroaniline			32.0	32.3		ug/L		101	32 - 132	5	35
Nitrobenzene			32.0	30.8		ug/L		96	63 - 120	6	35
2-Nitrophenol			32.0	30.9		ug/L		96	65 - 120	6	35
4-Nitrophenol			64.0	37.8		ug/L		59	18 - 120	12	35
N-Nitrosodiphenylamine			32.0	27.3		ug/L		85	54 - 120	3	35
N-Nitrosodi-n-propylamine			32.0	30.6		ug/L		95	63 - 120	3	35
2,2'-oxybis(1-chloropropane)			32.0	29.7		ug/L		93	61 - 120	1	35
Pentachlorophenol			64.0	32.5	J	ug/L		51	33 - 120	13	35
Phenanthrene			32.0	26.7		ug/L		83	57 - 120	3	35
Phenol			32.0	23.9		ug/L		75	21 - 120	7	35
Pyrene			32.0	27.7		ug/L		87	57 - 120	4	35
2,4,5-Trichlorophenol			32.0	26.9		ug/L		84	61 - 120	5	35
2,4,6-Trichlorophenol			32.0	29.7		ug/L		93	57 - 120	7	35
2,6-Dinitrotoluene			32.0	30.5		ug/L		95	63 - 120	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*92*		*44 - 120*
2-Fluorophenol (Surr)	*105*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*82*		*36 - 120*
Nitrobenzene-d5 (Surr)	*100*		*44 - 120*
Phenol-d5 (Surr)	*77*		*16 - 120*
Terphenyl-d14 (Surr)	*97*		*43 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-260765/17-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.20	U	0.20	0.044	ug/L		12/23/16 09:03	12/27/16 09:20	1
Acenaphthylene	0.20	U	0.20	0.020	ug/L		12/23/16 09:03	12/27/16 09:20	1
Acetophenone	1.0	U	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 09:20	1
Aniline	5.0	U	5.0	0.22	ug/L		12/23/16 09:03	12/27/16 09:20	1
Anthracene	0.20	U	0.20	0.031	ug/L		12/23/16 09:03	12/27/16 09:20	1
Atrazine	2.0	U	2.0	0.12	ug/L		12/23/16 09:03	12/27/16 09:20	1
Benzaldehyde	2.0	U	2.0	0.30	ug/L		12/23/16 09:03	12/27/16 09:20	1
Benzo[a]anthracene	0.20	U	0.20	0.059	ug/L		12/23/16 09:03	12/27/16 09:20	1
Benzo[b]fluoranthene	0.20	U	0.20	0.059	ug/L		12/23/16 09:03	12/27/16 09:20	1
Benzo[k]fluoranthene	0.20	U	0.20	0.048	ug/L		12/23/16 09:03	12/27/16 09:20	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.050	ug/L		12/23/16 09:03	12/27/16 09:20	1
Benzo[a]pyrene	0.20	U	0.20	0.030	ug/L		12/23/16 09:03	12/27/16 09:20	1
Butyl benzyl phthalate	1.0	U	1.0	0.22	ug/L		12/23/16 09:03	12/27/16 09:20	1
1,1'-Biphenyl	1.0	U	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 09:20	1
Bis(2-chloroethoxy)methane	1.0	U	1.0	0.037	ug/L		12/23/16 09:03	12/27/16 09:20	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.19	ug/L		12/23/16 09:03	12/27/16 09:20	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.5	ug/L		12/23/16 09:03	12/27/16 09:20	1
4-Bromophenyl phenyl ether	2.0	U	2.0	0.35	ug/L		12/23/16 09:03	12/27/16 09:20	1
Caprolactam	5.0	U	5.0	0.37	ug/L		12/23/16 09:03	12/27/16 09:20	1
Carbazole	1.0	U	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 09:20	1
4-Chloroaniline	2.0	U	2.0	0.15	ug/L		12/23/16 09:03	12/27/16 09:20	1
4-Chloro-3-methylphenol	2.0	U	2.0	0.28	ug/L		12/23/16 09:03	12/27/16 09:20	1
2-Chloronaphthalene	1.0	U	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 09:20	1
2-Chlorophenol	1.0	U	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 09:20	1
4-Chlorophenyl phenyl ether	2.0	U	2.0	0.29	ug/L		12/23/16 09:03	12/27/16 09:20	1
Chrysene	0.20	U	0.20	0.035	ug/L		12/23/16 09:03	12/27/16 09:20	1
2-Methylnaphthalene	0.20	U	0.20	0.037	ug/L		12/23/16 09:03	12/27/16 09:20	1
3 & 4 Methylphenol	2.0	U	2.0	0.34	ug/L		12/23/16 09:03	12/27/16 09:20	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.040	ug/L		12/23/16 09:03	12/27/16 09:20	1
Dibenzofuran	1.0	U	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 09:20	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.35	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,4-Dichlorophenol	2.0	U	2.0	0.29	ug/L		12/23/16 09:03	12/27/16 09:20	1
Diethyl phthalate	0.609	J	1.0	0.13	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,4-Dimethylphenol	2.0	U	2.0	0.31	ug/L		12/23/16 09:03	12/27/16 09:20	1
Dimethyl phthalate	1.0	U	1.0	0.10	ug/L		12/23/16 09:03	12/27/16 09:20	1
4,6-Dinitro-2-methylphenol	5.0	U	5.0	0.53	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,4-Dinitrophenol	40	U	40	6.1	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,4-Dinitrotoluene	5.0	U	5.0	0.26	ug/L		12/23/16 09:03	12/27/16 09:20	1
Di-n-butyl phthalate	0.794	J	1.0	0.40	ug/L		12/23/16 09:03	12/27/16 09:20	1
Di-n-octyl phthalate	1.0	U	1.0	0.37	ug/L		12/23/16 09:03	12/27/16 09:20	1
Fluoranthene	0.20	U	0.20	0.027	ug/L		12/23/16 09:03	12/27/16 09:20	1
Fluorene	0.20	U	0.20	0.034	ug/L		12/23/16 09:03	12/27/16 09:20	1
Hexachlorobenzene	1.0	U	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 09:20	1
Hexachlorobutadiene	1.0	U	1.0	0.14	ug/L		12/23/16 09:03	12/27/16 09:20	1
Hexachlorocyclopentadiene	10	U	10	2.5	ug/L		12/23/16 09:03	12/27/16 09:20	1
Hexachloroethane	1.0	U	1.0	0.22	ug/L		12/23/16 09:03	12/27/16 09:20	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.048	ug/L		12/23/16 09:03	12/27/16 09:20	1
Isophorone	1.0	U	1.0	0.042	ug/L		12/23/16 09:03	12/27/16 09:20	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-260765/17-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	1.0	U	1.0	0.19	ug/L		12/23/16 09:03	12/27/16 09:20	1
Naphthalene	0.20	U	0.20	0.043	ug/L		12/23/16 09:03	12/27/16 09:20	1
2-Nitroaniline	2.0	U	2.0	0.31	ug/L		12/23/16 09:03	12/27/16 09:20	1
3-Nitroaniline	2.0	U	2.0	0.27	ug/L		12/23/16 09:03	12/27/16 09:20	1
4-Nitroaniline	2.0	U	2.0	0.24	ug/L		12/23/16 09:03	12/27/16 09:20	1
Nitrobenzene	1.0	U	1.0	0.12	ug/L		12/23/16 09:03	12/27/16 09:20	1
2-Nitrophenol	2.0	U	2.0	0.21	ug/L		12/23/16 09:03	12/27/16 09:20	1
4-Nitrophenol	5.0	U	5.0	0.59	ug/L		12/23/16 09:03	12/27/16 09:20	1
N-Nitrosodiphenylamine	1.0	U	1.0	0.11	ug/L		12/23/16 09:03	12/27/16 09:20	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.16	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,2'-oxybis(1-chloropropane)	1.0	U	1.0	0.18	ug/L		12/23/16 09:03	12/27/16 09:20	1
Pentachlorophenol	40	U	40	5.5	ug/L		12/23/16 09:03	12/27/16 09:20	1
Phenanthrene	0.20	U	0.20	0.031	ug/L		12/23/16 09:03	12/27/16 09:20	1
Phenol	1.0	U	1.0	0.15	ug/L		12/23/16 09:03	12/27/16 09:20	1
Pyrene	0.20	U	0.20	0.028	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,4,5-Trichlorophenol	5.0	U	5.0	0.37	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.26	ug/L		12/23/16 09:03	12/27/16 09:20	1
2,6-Dinitrotoluene	5.0	U	5.0	0.24	ug/L		12/23/16 09:03	12/27/16 09:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*44 - 120*	*12/23/16 09:03*	*12/27/16 09:20*	*1*
2-Fluorophenol (Surr)	*58*		*26 - 120*	*12/23/16 09:03*	*12/27/16 09:20*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*36 - 120*	*12/23/16 09:03*	*12/27/16 09:20*	*1*
Nitrobenzene-d5 (Surr)	*68*		*44 - 120*	*12/23/16 09:03*	*12/27/16 09:20*	*1*
Phenol-d5 (Surr)	*35*		*16 - 120*	*12/23/16 09:03*	*12/27/16 09:20*	*1*
Terphenyl-d14 (Surr)	*75*		*43 - 120*	*12/23/16 09:03*	*12/27/16 09:20*	*1*

Lab Sample ID: LCS 240-260765/18-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	28.7		ug/L		90	58 - 120
Acenaphthylene	32.0	28.9		ug/L		90	59 - 120
Acetophenone	32.0	31.4		ug/L		98	62 - 120
Aniline	32.0	32.3		ug/L		101	10 - 120
Anthracene	32.0	29.8		ug/L		93	58 - 120
Atrazine	32.0	33.3		ug/L		104	61 - 120
Benzaldehyde	32.0	33.7		ug/L		105	10 - 120
Benzo[a]anthracene	32.0	30.0		ug/L		94	58 - 120
Benzo[b]fluoranthene	32.0	32.8		ug/L		103	59 - 120
Benzo[k]fluoranthene	32.0	32.5		ug/L		102	61 - 120
Benzo[g,h,i]perylene	32.0	30.4		ug/L		95	41 - 127
Benzo[a]pyrene	32.0	34.0		ug/L		106	63 - 120
Butyl benzyl phthalate	32.0	27.6		ug/L		86	60 - 120
1,1'-Biphenyl	32.0	28.3		ug/L		89	53 - 120
Bis(2-chloroethoxy)methane	32.0	29.5		ug/L		92	63 - 120
Bis(2-chloroethyl)ether	32.0	27.9		ug/L		87	57 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260765/18-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	32.0	31.6		ug/L		99	62 - 120
4-Bromophenyl phenyl ether	32.0	30.4		ug/L		95	55 - 120
Caprolactam	32.0	17.0		ug/L		53	10 - 120
Carbazole	32.0	30.9		ug/L		97	59 - 120
4-Chloroaniline	32.0	32.9		ug/L		103	10 - 120
4-Chloro-3-methylphenol	32.0	31.3		ug/L		98	59 - 120
2-Chloronaphthalene	32.0	28.5		ug/L		89	56 - 120
2-Chlorophenol	32.0	32.2		ug/L		101	62 - 120
4-Chlorophenyl phenyl ether	32.0	30.2		ug/L		94	57 - 120
Chrysene	32.0	29.1		ug/L		91	59 - 120
2-Methylnaphthalene	32.0	27.9		ug/L		87	57 - 120
3 & 4 Methylphenol	32.0	27.9		ug/L		87	53 - 120
Dibenz(a,h)anthracene	32.0	31.9		ug/L		100	39 - 125
Dibenzofuran	32.0	29.3		ug/L		92	58 - 120
3,3'-Dichlorobenzidine	64.0	68.0		ug/L		106	10 - 120
2,4-Dichlorophenol	32.0	28.8		ug/L		90	63 - 120
Diethyl phthalate	32.0	27.4		ug/L		86	64 - 120
2,4-Dimethylphenol	32.0	28.9		ug/L		90	41 - 120
Dimethyl phthalate	32.0	21.7		ug/L		68	63 - 120
4,6-Dinitro-2-methylphenol	64.0	53.7		ug/L		84	40 - 120
2,4-Dinitrophenol	64.0	45.5		ug/L		71	20 - 120
2,4-Dinitrotoluene	32.0	29.5		ug/L		92	62 - 120
Di-n-butyl phthalate	32.0	28.3		ug/L		88	58 - 120
Di-n-octyl phthalate	32.0	31.4		ug/L		98	58 - 128
Fluoranthene	32.0	29.8		ug/L		93	59 - 120
Fluorene	32.0	29.6		ug/L		92	57 - 120
Hexachlorobenzene	32.0	28.9		ug/L		90	48 - 120
Hexachlorobutadiene	32.0	25.2		ug/L		79	47 - 120
Hexachlorocyclopentadiene	32.0	19.7		ug/L		62	24 - 120
Hexachloroethane	32.0	24.0		ug/L		75	48 - 120
Indeno[1,2,3-cd]pyrene	32.0	32.6		ug/L		102	49 - 121
Isophorone	32.0	29.8		ug/L		93	66 - 120
2-Methylphenol	32.0	31.2		ug/L		97	55 - 120
Naphthalene	32.0	27.7		ug/L		87	58 - 120
2-Nitroaniline	32.0	32.9		ug/L		103	62 - 120
3-Nitroaniline	32.0	50.6	E	ug/L		158	10 - 171
4-Nitroaniline	32.0	37.3		ug/L		117	32 - 132
Nitrobenzene	32.0	30.5		ug/L		95	63 - 120
2-Nitrophenol	32.0	31.7		ug/L		99	65 - 120
4-Nitrophenol	64.0	37.0		ug/L		58	18 - 120
N-Nitrosodiphenylamine	32.0	30.0		ug/L		94	54 - 120
N-Nitrosodi-n-propylamine	32.0	32.1		ug/L		100	63 - 120
2,2'-oxybis(1-chloropropane)	32.0	30.7		ug/L		96	61 - 120
Pentachlorophenol	64.0	40.4		ug/L		63	33 - 120
Phenanthrene	32.0	28.4		ug/L		89	57 - 120
Phenol	32.0	21.6		ug/L		68	21 - 120
Pyrene	32.0	29.7		ug/L		93	57 - 120
2,4,5-Trichlorophenol	32.0	28.3		ug/L		88	61 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-260765/18-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260765

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,6-Trichlorophenol			32.0	31.0		ug/L		97	57 - 120		
2,6-Dinitrotoluene			32.0	32.0		ug/L		100	63 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*99*		*44 - 120*
2-Fluorophenol (Surr)	*116*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*92*		*36 - 120*
Nitrobenzene-d5 (Surr)	*103*		*44 - 120*
Phenol-d5 (Surr)	*72*		*16 - 120*
Terphenyl-d14 (Surr)	*109*		*43 - 120*

Lab Sample ID: LCSD 240-260765/19-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260765

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			32.0	27.1		ug/L		85	58 - 120	6	35
Acenaphthylene			32.0	26.8		ug/L		84	59 - 120	8	35
Acetophenone			32.0	28.2		ug/L		88	62 - 120	11	35
Aniline			32.0	26.4		ug/L		83	10 - 120	20	35
Anthracene			32.0	30.9		ug/L		97	58 - 120	4	35
Atrazine			32.0	35.3		ug/L		110	61 - 120	6	35
Benzaldehyde			32.0	38.4		ug/L		120	10 - 120	13	35
Benzo[a]anthracene			32.0	31.7		ug/L		99	58 - 120	5	35
Benzo[b]fluoranthene			32.0	33.8		ug/L		106	59 - 120	3	35
Benzo[k]fluoranthene			32.0	33.4		ug/L		105	61 - 120	3	35
Benzo[g,h,i]perylene			32.0	31.1		ug/L		97	41 - 127	2	35
Benzo[a]pyrene			32.0	35.4		ug/L		110	63 - 120	4	35
Butyl benzyl phthalate			32.0	33.5		ug/L		105	60 - 120	20	35
1,1'-Biphenyl			32.0	27.0		ug/L		84	53 - 120	5	35
Bis(2-chloroethoxy)methane			32.0	28.6		ug/L		89	63 - 120	3	35
Bis(2-chloroethyl)ether			32.0	27.7		ug/L		86	57 - 120	1	35
Bis(2-ethylhexyl) phthalate			32.0	33.0		ug/L		103	62 - 120	4	35
4-Bromophenyl phenyl ether			32.0	29.8		ug/L		93	55 - 120	2	35
Caprolactam			32.0	15.7		ug/L		49	10 - 120	8	35
Carbazole			32.0	34.3		ug/L		107	59 - 120	10	35
4-Chloroaniline			32.0	33.6		ug/L		105	10 - 120	2	35
4-Chloro-3-methylphenol			32.0	28.5		ug/L		89	59 - 120	9	35
2-Chloronaphthalene			32.0	27.0		ug/L		85	56 - 120	5	35
2-Chlorophenol			32.0	26.4		ug/L		82	62 - 120	20	35
4-Chlorophenyl phenyl ether			32.0	28.6		ug/L		89	57 - 120	5	35
Chrysene			32.0	30.8		ug/L		96	59 - 120	6	35
2-Methylnaphthalene			32.0	27.5		ug/L		86	57 - 120	1	35
3 & 4 Methylphenol			32.0	24.0		ug/L		75	53 - 120	15	35
Dibenz(a,h)anthracene			32.0	32.9		ug/L		103	39 - 125	3	35
Dibenzofuran			32.0	27.4		ug/L		86	58 - 120	7	35
3,3'-Dichlorobenzidine			64.0	75.2		ug/L		118	10 - 120	10	35
2,4-Dichlorophenol			32.0	25.2		ug/L		79	63 - 120	13	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 240-260765/19-A
Matrix: Water
Analysis Batch: 260891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260765

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diethyl phthalate			32.0	31.7		ug/L		99	64 - 120	14	35
2,4-Dimethylphenol			32.0	25.7		ug/L		80	41 - 120	12	35
Dimethyl phthalate			32.0	30.4		ug/L		95	63 - 120	33	35
4,6-Dinitro-2-methylphenol			64.0	45.7		ug/L		71	40 - 120	16	35
2,4-Dinitrophenol			64.0	36.3	J	ug/L		57	20 - 120	23	35
2,4-Dinitrotoluene			32.0	29.8		ug/L		93	62 - 120	1	35
Di-n-butyl phthalate			32.0	31.5		ug/L		98	58 - 120	11	35
Di-n-octyl phthalate			32.0	32.4		ug/L		101	58 - 128	3	35
Fluoranthene			32.0	31.3		ug/L		98	59 - 120	5	35
Fluorene			32.0	28.0		ug/L		88	57 - 120	5	35
Hexachlorobenzene			32.0	28.7		ug/L		90	48 - 120	1	35
Hexachlorobutadiene			32.0	27.8		ug/L		87	47 - 120	10	35
Hexachlorocyclopentadiene			32.0	20.5		ug/L		64	24 - 120	4	35
Hexachloroethane			32.0	27.2		ug/L		85	48 - 120	12	35
Indeno[1,2,3-cd]pyrene			32.0	33.4		ug/L		104	49 - 121	2	35
Isophorone			32.0	30.1		ug/L		94	66 - 120	1	35
2-Methylphenol			32.0	26.6		ug/L		83	55 - 120	16	35
Naphthalene			32.0	27.5		ug/L		86	58 - 120	1	35
2-Nitroaniline			32.0	33.2		ug/L		104	62 - 120	1	35
3-Nitroaniline			32.0	58.8	E *	ug/L		184	10 - 171	15	35
4-Nitroaniline			32.0	38.2		ug/L		119	32 - 132	2	35
Nitrobenzene			32.0	29.1		ug/L		91	63 - 120	4	35
2-Nitrophenol			32.0	27.9		ug/L		87	65 - 120	13	35
4-Nitrophenol			64.0	33.2		ug/L		52	18 - 120	11	35
N-Nitrosodiphenylamine			32.0	29.9		ug/L		93	54 - 120	1	35
N-Nitrosodi-n-propylamine			32.0	29.8		ug/L		93	63 - 120	8	35
2,2'-oxybis(1-chloropropane)			32.0	28.3		ug/L		88	61 - 120	8	35
Pentachlorophenol			64.0	32.2	J	ug/L		50	33 - 120	23	35
Phenanthrene			32.0	28.8		ug/L		90	57 - 120	1	35
Phenol			32.0	19.1		ug/L		60	21 - 120	12	35
Pyrene			32.0	30.9		ug/L		97	57 - 120	4	35
2,4,5-Trichlorophenol			32.0	24.2		ug/L		76	61 - 120	15	35
2,4,6-Trichlorophenol			32.0	27.1		ug/L		85	57 - 120	14	35
2,6-Dinitrotoluene			32.0	31.7		ug/L		99	63 - 120	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*93*		*44 - 120*
2-Fluorophenol (Surr)	*77*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*76*		*36 - 120*
Nitrobenzene-d5 (Surr)	*97*		*44 - 120*
Phenol-d5 (Surr)	*63*		*16 - 120*
Terphenyl-d14 (Surr)	*112*		*43 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-260113/1-A
Matrix: Water
Analysis Batch: 260614

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 260113

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	40	ug/L		12/19/16 14:00	12/21/16 18:26	1
Antimony	10	U	10	3.1	ug/L		12/19/16 14:00	12/21/16 18:26	1
Barium	200	U	200	2.4	ug/L		12/19/16 14:00	12/21/16 18:26	1
Beryllium	5.0	U	5.0	0.21	ug/L		12/19/16 14:00	12/21/16 18:26	1
Calcium	5000	U	5000	710	ug/L		12/19/16 14:00	12/21/16 18:26	1
Cadmium	2.0	U	2.0	0.29	ug/L		12/19/16 14:00	12/21/16 18:26	1
Cobalt	7.0	U	7.0	0.84	ug/L		12/19/16 14:00	12/21/16 18:26	1
Chromium	5.0	U	5.0	0.55	ug/L		12/19/16 14:00	12/21/16 18:26	1
Copper	25	U	25	3.9	ug/L		12/19/16 14:00	12/21/16 18:26	1
Iron	100	U	100	25	ug/L		12/19/16 14:00	12/21/16 18:26	1
Potassium	5000	U	5000	70	ug/L		12/19/16 14:00	12/21/16 18:26	1
Magnesium	5000	U	5000	230	ug/L		12/19/16 14:00	12/21/16 18:26	1
Manganese	15	U	15	5.1	ug/L		12/19/16 14:00	12/21/16 18:26	1
Silver	5.0	U	5.0	0.92	ug/L		12/19/16 14:00	12/21/16 18:26	1
Sodium	711	J	5000	330	ug/L		12/19/16 14:00	12/21/16 18:26	1
Nickel	40	U	40	1.6	ug/L		12/19/16 14:00	12/21/16 18:26	1
Vanadium	10	U	10	4.4	ug/L		12/19/16 14:00	12/21/16 18:26	1
Zinc	50	U	50	16	ug/L		12/19/16 14:00	12/21/16 18:26	1
Arsenic	10	U	10	3.3	ug/L		12/19/16 14:00	12/21/16 18:26	1
Lead	5.0	U	5.0	1.9	ug/L		12/19/16 14:00	12/21/16 18:26	1
Selenium	15	U	15	5.1	ug/L		12/19/16 14:00	12/21/16 18:26	1
Thallium	10	U	10	2.1	ug/L		12/19/16 14:00	12/21/16 18:26	1
Tin	100	U	100	1.8	ug/L		12/19/16 14:00	12/21/16 18:26	1

Lab Sample ID: LCS 240-260113/2-A
Matrix: Water
Analysis Batch: 260614

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 260113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2000	1980		ug/L		99	80 - 120
Antimony	500	522		ug/L		104	80 - 120
Barium	2000	1950		ug/L		98	80 - 120
Beryllium	50.0	51.1		ug/L		102	80 - 120
Calcium	50000	49200		ug/L		98	80 - 120
Cadmium	50.0	49.0		ug/L		98	80 - 120
Cobalt	500	479		ug/L		96	80 - 120
Chromium	200	191		ug/L		95	80 - 120
Copper	250	245		ug/L		98	80 - 120
Iron	1000	954		ug/L		95	80 - 120
Potassium	50000	51000		ug/L		102	80 - 120
Magnesium	50000	48900		ug/L		98	80 - 120
Manganese	500	477		ug/L		95	80 - 120
Silver	50.0	49.6		ug/L		99	80 - 120
Sodium	50000	52300		ug/L		105	80 - 120
Nickel	500	487		ug/L		97	80 - 120
Vanadium	500	483		ug/L		97	80 - 120
Zinc	500	492		ug/L		98	80 - 120
Arsenic	2000	2050		ug/L		102	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-260113/2-A
Matrix: Water
Analysis Batch: 260614

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 260113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	500	481		ug/L		96	80 - 120
Selenium	2000	2070		ug/L		103	80 - 120
Thallium	2000	1940		ug/L		97	80 - 120
Tin	2000	2000		ug/L		100	80 - 120

Lab Sample ID: 240-73513-1 MS
Matrix: Water
Analysis Batch: 260614

Client Sample ID: 20161214UAW10-50V50N
Prep Type: Total Recoverable
Prep Batch: 260113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200		2000	2290		ug/L		104	75 - 125
Antimony	10	U	500	545		ug/L		109	75 - 125
Barium	41	J	2000	2050		ug/L		100	75 - 125
Beryllium	5.0	U	50.0	51.9		ug/L		104	75 - 125
Calcium	160000		50000	207000		ug/L		97	75 - 125
Cadmium	2.0	U	50.0	51.0		ug/L		102	75 - 125
Cobalt	7.0	U	500	495		ug/L		99	75 - 125
Chromium	0.67	J	200	194		ug/L		97	75 - 125
Copper	4.1	J	250	255		ug/L		101	75 - 125
Iron	240		1000	1190		ug/L		95	75 - 125
Potassium	1800	J	50000	54500		ug/L		106	75 - 125
Magnesium	50000		50000	99000		ug/L		98	75 - 125
Manganese	190		500	668		ug/L		97	75 - 125
Silver	5.0	U	50.0	51.6		ug/L		103	75 - 125
Sodium	35000	B	50000	88200		ug/L		107	75 - 125
Nickel	3.7	J	500	502		ug/L		100	75 - 125
Vanadium	10	U	500	491		ug/L		98	75 - 125
Zinc	50	U	500	513		ug/L		103	75 - 125
Arsenic	10	U	2000	2140		ug/L		107	75 - 125
Lead	2.4	J	500	483		ug/L		96	75 - 125
Selenium	15	U	2000	2150		ug/L		107	75 - 125
Thallium	10	U	2000	1980		ug/L		99	75 - 125
Tin	100	U	2000	2090		ug/L		105	75 - 125

Lab Sample ID: 240-73513-1 MSD
Matrix: Water
Analysis Batch: 260614

Client Sample ID: 20161214UAW10-50V50N
Prep Type: Total Recoverable
Prep Batch: 260113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	200		2000	2320		ug/L		106	75 - 125	1	20
Antimony	10	U	500	548		ug/L		110	75 - 125	0	20
Barium	41	J	2000	2060		ug/L		101	75 - 125	0	20
Beryllium	5.0	U	50.0	52.5		ug/L		105	75 - 125	1	20
Calcium	160000		50000	208000		ug/L		97	75 - 125	0	20
Cadmium	2.0	U	50.0	50.5		ug/L		101	75 - 125	1	20
Cobalt	7.0	U	500	492		ug/L		98	75 - 125	1	20
Chromium	0.67	J	200	192		ug/L		96	75 - 125	1	20
Copper	4.1	J	250	252		ug/L		99	75 - 125	1	20
Iron	240		1000	1180		ug/L		95	75 - 125	0	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-73513-1 MSD — **Client Sample ID: 20161214UAW10-50V50N**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 260614 — **Prep Batch: 260113**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	1800	J	50000	55300		ug/L		107	75 - 125	1	20
Magnesium	50000		50000	99400		ug/L		99	75 - 125	0	20
Manganese	190		500	659		ug/L		95	75 - 125	1	20
Silver	5.0	U	50.0	51.0		ug/L		102	75 - 125	1	20
Sodium	35000	B	50000	89100		ug/L		108	75 - 125	1	20
Nickel	3.7	J	500	497		ug/L		99	75 - 125	1	20
Vanadium	10	U	500	492		ug/L		98	75 - 125	0	20
Zinc	50	U	500	510		ug/L		102	75 - 125	1	20
Arsenic	10	U	2000	2130		ug/L		106	75 - 125	0	20
Lead	2.4	J	500	482		ug/L		96	75 - 125	0	20
Selenium	15	U	2000	2130		ug/L		107	75 - 125	1	20
Thallium	10	U	2000	1960		ug/L		98	75 - 125	1	20
Tin	100	U	2000	2090		ug/L		104	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-260121/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260348 — **Prep Batch: 260121**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.101	J	0.20	0.090	ug/L		12/19/16 14:00	12/20/16 15:07	1

Lab Sample ID: LCS 240-260121/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260348 — **Prep Batch: 260121**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.85		ug/L		97	80 - 120

Lab Sample ID: 240-73513-1 MS — **Client Sample ID: 20161214UAW10-50V50N**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260348 — **Prep Batch: 260121**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	U	1.00	1.09		ug/L		109	80 - 120

Lab Sample ID: 240-73513-1 MSD — **Client Sample ID: 20161214UAW10-50V50N**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260348 — **Prep Batch: 260121**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	0.972		ug/L		97	80 - 120	11	20

GC/MS VOA

Analysis Batch: 260921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73513-1	20161214UAW10-50V50N	Total/NA	Water	8260B	
240-73513-2	20161214UAW22-20V16N	Total/NA	Water	8260B	
240-73513-3	20161215UAW24-70V68N	Total/NA	Water	8260B	
240-73513-4	20161215UAW10-80V77N	Total/NA	Water	8260B	
240-73513-5	20161214MW-EPA-3V14N	Total/NA	Water	8260B	
240-73513-6	20161214UAW18-20V15N	Total/NA	Water	8260B	
240-73513-7	20161215UAW27-50V43N	Total/NA	Water	8260B	
240-73513-8	20161215UAW19-80V74N	Total/NA	Water	8260B	
240-73513-9	20161215CINRB-2	Total/NA	Water	8260B	
240-73513-10	TRIP BLANK	Total/NA	Water	8260B	
MB 240-260921/7	Method Blank	Total/NA	Water	8260B	
LCS 240-260921/4	Lab Control Sample	Total/NA	Water	8260B	
240-73543-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
240-73543-C-1 MS	Matrix Spike	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 260234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73513-1	20161214UAW10-50V50N	Total/NA	Water	3510C	
240-73513-2	20161214UAW22-20V16N	Total/NA	Water	3510C	
240-73513-5	20161214MW-EPA-3V14N	Total/NA	Water	3510C	
240-73513-6	20161214UAW18-20V15N	Total/NA	Water	3510C	
MB 240-260234/16-A	Method Blank	Total/NA	Water	3510C	
LCS 240-260234/17-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-260234/18-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 260556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-260234/16-A	Method Blank	Total/NA	Water	8270C	260234
LCS 240-260234/17-A	Lab Control Sample	Total/NA	Water	8270C	260234
LCSD 240-260234/18-A	Lab Control Sample Dup	Total/NA	Water	8270C	260234

Prep Batch: 260580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73513-3	20161215UAW24-70V68N	Total/NA	Water	3510C	
240-73513-4	20161215UAW10-80V77N	Total/NA	Water	3510C	
240-73513-7	20161215UAW27-50V43N	Total/NA	Water	3510C	
240-73513-8	20161215UAW19-80V74N	Total/NA	Water	3510C	
240-73513-9	20161215CINRB-2	Total/NA	Water	3510C	
MB 240-260580/6-A	Method Blank	Total/NA	Water	3510C	
LCS 240-260580/7-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-260580/8-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 260723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73513-1	20161214UAW10-50V50N	Total/NA	Water	8270C	260234
240-73513-2	20161214UAW22-20V16N	Total/NA	Water	8270C	260234
240-73513-5	20161214MW-EPA-3V14N	Total/NA	Water	8270C	260234
240-73513-6	20161214UAW18-20V15N	Total/NA	Water	8270C	260234

GC/MS Semi VOA (Continued)

Prep Batch: 260765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73513-1 - RE	20161214UAW10-50V50N	Total/NA	Water	3510C	
240-73513-2 - RE	20161214UAW22-20V16N	Total/NA	Water	3510C	
240-73513-5 - RE	20161214MW-EPA-3V14N	Total/NA	Water	3510C	
240-73513-6 - RE	20161214UAW18-20V15N	Total/NA	Water	3510C	
MB 240-260765/17-A	Method Blank	Total/NA	Water	3510C	
LCS 240-260765/18-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 240-260765/19-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 260891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73513-1 - RE	20161214UAW10-50V50N	Total/NA	Water	8270C	260765
240-73513-2 - RE	20161214UAW22-20V16N	Total/NA	Water	8270C	260765
240-73513-5 - RE	20161214MW-EPA-3V14N	Total/NA	Water	8270C	260765
240-73513-6 - RE	20161214UAW18-20V15N	Total/NA	Water	8270C	260765
MB 240-260765/17-A	Method Blank	Total/NA	Water	8270C	260765
LCS 240-260765/18-A	Lab Control Sample	Total/NA	Water	8270C	260765
LCSD 240-260765/19-A	Lab Control Sample Dup	Total/NA	Water	8270C	260765

Analysis Batch: 261056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73513-3	20161215UAW24-70V68N	Total/NA	Water	8270C	260580
240-73513-4	20161215UAW10-80V77N	Total/NA	Water	8270C	260580
240-73513-7	20161215UAW27-50V43N	Total/NA	Water	8270C	260580
240-73513-8	20161215UAW19-80V74N	Total/NA	Water	8270C	260580
240-73513-9	20161215CINRB-2	Total/NA	Water	8270C	260580
MB 240-260580/6-A	Method Blank	Total/NA	Water	8270C	260580
LCS 240-260580/7-A	Lab Control Sample	Total/NA	Water	8270C	260580
LCSD 240-260580/8-A	Lab Control Sample Dup	Total/NA	Water	8270C	260580

Metals

Prep Batch: 260113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73513-1	20161214UAW10-50V50N	Total Recoverable	Water	3005A	
240-73513-2	20161214UAW22-20V16N	Total Recoverable	Water	3005A	
240-73513-3	20161215UAW24-70V68N	Total Recoverable	Water	3005A	
240-73513-4	20161215UAW10-80V77N	Total Recoverable	Water	3005A	
240-73513-5	20161214MW-EPA-3V14N	Total Recoverable	Water	3005A	
240-73513-6	20161214UAW18-20V15N	Total Recoverable	Water	3005A	
240-73513-7	20161215UAW27-50V43N	Total Recoverable	Water	3005A	
240-73513-8	20161215UAW19-80V74N	Total Recoverable	Water	3005A	
240-73513-9	20161215CINRB-2	Total Recoverable	Water	3005A	
MB 240-260113/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-260113/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-73513-1 MS	20161214UAW10-50V50N	Total Recoverable	Water	3005A	
240-73513-1 MSD	20161214UAW10-50V50N	Total Recoverable	Water	3005A	

Prep Batch: 260121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73513-1	20161214UAW10-50V50N	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 260121 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73513-2	20161214UAW22-20V16N	Total/NA	Water	7470A	
240-73513-3	20161215UAW24-70V68N	Total/NA	Water	7470A	
240-73513-4	20161215UAW10-80V77N	Total/NA	Water	7470A	
240-73513-5	20161214MW-EPA-3V14N	Total/NA	Water	7470A	
240-73513-6	20161214UAW18-20V15N	Total/NA	Water	7470A	
240-73513-7	20161215UAW27-50V43N	Total/NA	Water	7470A	
240-73513-8	20161215UAW19-80V74N	Total/NA	Water	7470A	
240-73513-9	20161215CINRB-2	Total/NA	Water	7470A	
MB 240-260121/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-260121/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-73513-1 MS	20161214UAW10-50V50N	Total/NA	Water	7470A	
240-73513-1 MSD	20161214UAW10-50V50N	Total/NA	Water	7470A	

Analysis Batch: 260348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73513-1	20161214UAW10-50V50N	Total/NA	Water	7470A	260121
240-73513-2	20161214UAW22-20V16N	Total/NA	Water	7470A	260121
240-73513-3	20161215UAW24-70V68N	Total/NA	Water	7470A	260121
240-73513-4	20161215UAW10-80V77N	Total/NA	Water	7470A	260121
240-73513-5	20161214MW-EPA-3V14N	Total/NA	Water	7470A	260121
240-73513-6	20161214UAW18-20V15N	Total/NA	Water	7470A	260121
240-73513-7	20161215UAW27-50V43N	Total/NA	Water	7470A	260121
240-73513-8	20161215UAW19-80V74N	Total/NA	Water	7470A	260121
240-73513-9	20161215CINRB-2	Total/NA	Water	7470A	260121
MB 240-260121/1-A	Method Blank	Total/NA	Water	7470A	260121
LCS 240-260121/2-A	Lab Control Sample	Total/NA	Water	7470A	260121
240-73513-1 MS	20161214UAW10-50V50N	Total/NA	Water	7470A	260121
240-73513-1 MSD	20161214UAW10-50V50N	Total/NA	Water	7470A	260121

Analysis Batch: 260614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73513-1	20161214UAW10-50V50N	Total Recoverable	Water	6010B	260113
240-73513-2	20161214UAW22-20V16N	Total Recoverable	Water	6010B	260113
240-73513-3	20161215UAW24-70V68N	Total Recoverable	Water	6010B	260113
240-73513-4	20161215UAW10-80V77N	Total Recoverable	Water	6010B	260113
240-73513-5	20161214MW-EPA-3V14N	Total Recoverable	Water	6010B	260113
240-73513-6	20161214UAW18-20V15N	Total Recoverable	Water	6010B	260113
240-73513-7	20161215UAW27-50V43N	Total Recoverable	Water	6010B	260113
240-73513-8	20161215UAW19-80V74N	Total Recoverable	Water	6010B	260113
240-73513-9	20161215CINRB-2	Total Recoverable	Water	6010B	260113
MB 240-260113/1-A	Method Blank	Total Recoverable	Water	6010B	260113
LCS 240-260113/2-A	Lab Control Sample	Total Recoverable	Water	6010B	260113
240-73513-1 MS	20161214UAW10-50V50N	Total Recoverable	Water	6010B	260113
240-73513-1 MSD	20161214UAW10-50V50N	Total Recoverable	Water	6010B	260113

Analysis Batch: 261091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-73513-2	20161214UAW22-20V16N	Total Recoverable	Water	6010B	260113

Lab Chronicle

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Client Sample ID: 20161214UAW10-50V50N — Lab Sample ID: 240-73513-1

Date Collected: 12/14/16 16:30 — **Matrix: Water**
Date Received: 12/17/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260921	12/27/16 12:42	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		1	260723	12/23/16 15:44	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	1	260891	12/27/16 15:26	TMH	TAL CAN
Total Recoverable	Prep	3005A			260113	12/19/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260614	12/21/16 18:34	AMM2	TAL CAN
Total/NA	Prep	7470A			260121	12/19/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260348	12/20/16 15:11	DSH	TAL CAN

Client Sample ID: 20161214UAW22-20V16N — Lab Sample ID: 240-73513-2

Date Collected: 12/14/16 17:15 — **Matrix: Water**
Date Received: 12/17/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260921	12/27/16 13:04	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		1	260723	12/23/16 16:09	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	1	260891	12/27/16 15:51	TMH	TAL CAN
Total Recoverable	Prep	3005A			260113	12/19/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260614	12/21/16 18:55	AMM2	TAL CAN
Total Recoverable	Prep	3005A			260113	12/19/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		5	261091	12/27/16 20:56	RKT	TAL CAN
Total/NA	Prep	7470A			260121	12/19/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260348	12/20/16 15:17	DSH	TAL CAN

Client Sample ID: 20161215UAW24-70V68N — Lab Sample ID: 240-73513-3

Date Collected: 12/15/16 10:50 — **Matrix: Water**
Date Received: 12/17/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260921	12/27/16 15:43	LEE	TAL CAN
Total/NA	Prep	3510C			260580	12/22/16 08:32	KEH	TAL CAN
Total/NA	Analysis	8270C		1	261056	12/28/16 14:33	TMH	TAL CAN
Total Recoverable	Prep	3005A			260113	12/19/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260614	12/21/16 18:59	AMM2	TAL CAN
Total/NA	Prep	7470A			260121	12/19/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260348	12/20/16 15:19	DSH	TAL CAN

Lab Chronicle

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Client Sample ID: 20161215UAW10-80V77N — Lab Sample ID: 240-73513-4

Date Collected: 12/15/16 14:50
Date Received: 12/17/16 08:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260921	12/27/16 16:06	LEE	TAL CAN
Total/NA	Prep	3510C			260580	12/22/16 08:32	KEH	TAL CAN
Total/NA	Analysis	8270C		1	261056	12/28/16 14:58	TMH	TAL CAN
Total Recoverable	Prep	3005A			260113	12/19/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260614	12/21/16 19:12	AMM2	TAL CAN
Total/NA	Prep	7470A			260121	12/19/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260348	12/20/16 15:25	DSH	TAL CAN

Client Sample ID: 20161214MW-EPA-3V14N — Lab Sample ID: 240-73513-5

Date Collected: 12/14/16 16:15
Date Received: 12/17/16 08:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260921	12/27/16 13:27	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		1	260723	12/23/16 16:33	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	1	260891	12/27/16 16:15	TMH	TAL CAN
Total Recoverable	Prep	3005A			260113	12/19/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260614	12/21/16 19:16	AMM2	TAL CAN
Total/NA	Prep	7470A			260121	12/19/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260348	12/20/16 15:27	DSH	TAL CAN

Client Sample ID: 20161214UAW18-20V15N — Lab Sample ID: 240-73513-6

Date Collected: 12/14/16 17:45
Date Received: 12/17/16 08:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260921	12/27/16 13:50	LEE	TAL CAN
Total/NA	Prep	3510C			260234	12/20/16 09:01	SDE	TAL CAN
Total/NA	Analysis	8270C		1	260723	12/23/16 16:58	TMH	TAL CAN
Total/NA	Prep	3510C	RE		260765	12/23/16 09:03	SDE	TAL CAN
Total/NA	Analysis	8270C	RE	1	260891	12/27/16 16:40	TMH	TAL CAN
Total Recoverable	Prep	3005A			260113	12/19/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260614	12/21/16 19:21	AMM2	TAL CAN
Total/NA	Prep	7470A			260121	12/19/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260348	12/20/16 15:29	DSH	TAL CAN

Client Sample ID: 20161215UAW27-50V43N

Lab Sample ID: 240-73513-7

Date Collected: 12/15/16 10:45

Matrix: Water

Date Received: 12/17/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260921	12/27/16 16:29	LEE	TAL CAN
Total/NA	Prep	3510C			260580	12/22/16 08:32	KEH	TAL CAN
Total/NA	Analysis	8270C		1	261056	12/28/16 15:22	TMH	TAL CAN
Total Recoverable	Prep	3005A			260113	12/19/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260614	12/21/16 19:25	AMM2	TAL CAN
Total/NA	Prep	7470A			260121	12/19/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260348	12/20/16 15:31	DSH	TAL CAN

Client Sample ID: 20161215UAW19-80V74N

Lab Sample ID: 240-73513-8

Date Collected: 12/15/16 14:50

Matrix: Water

Date Received: 12/17/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260921	12/27/16 16:51	LEE	TAL CAN
Total/NA	Prep	3510C			260580	12/22/16 08:32	KEH	TAL CAN
Total/NA	Analysis	8270C		1	261056	12/28/16 15:47	TMH	TAL CAN
Total Recoverable	Prep	3005A			260113	12/19/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260614	12/21/16 19:29	AMM2	TAL CAN
Total/NA	Prep	7470A			260121	12/19/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260348	12/20/16 15:33	DSH	TAL CAN

Client Sample ID: 20161215CINRB-2

Lab Sample ID: 240-73513-9

Date Collected: 12/15/16 17:00

Matrix: Water

Date Received: 12/17/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260921	12/27/16 17:14	LEE	TAL CAN
Total/NA	Prep	3510C			260580	12/22/16 08:32	KEH	TAL CAN
Total/NA	Analysis	8270C		1	261056	12/28/16 16:11	TMH	TAL CAN
Total Recoverable	Prep	3005A			260113	12/19/16 14:00	AJC	TAL CAN
Total Recoverable	Analysis	6010B		1	260614	12/21/16 19:34	AMM2	TAL CAN
Total/NA	Prep	7470A			260121	12/19/16 14:00	AJC	TAL CAN
Total/NA	Analysis	7470A		1	260348	12/20/16 15:35	DSH	TAL CAN

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-73513-10

Date Collected: 12/14/16 00:00

Matrix: Water

Date Received: 12/17/16 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260921	12/27/16 14:13	LEE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Parsons Corporation
Project/Site: DOW Cincinnati - GW Sampling

TestAmerica Job ID: 240-73513-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17 *
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17
Illinois	NELAP	5	200004	07-31-17
Kansas	NELAP	7	E-10336	01-31-17 *
Kentucky (UST)	State Program	4	58	02-23-17 *
Kentucky (WW)	State Program	4	98016	12-31-16 *
Minnesota	NELAP	5	039-999-348	12-31-16 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17
Nevada	State Program	9	OH-000482008A	07-31-17
New Jersey	NELAP	2	OH001	06-30-17
New York	NELAP	2	10975	03-31-17 *
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17 *
Pennsylvania	NELAP	3	68-00340	08-31-17
Texas	NELAP	6	T104704517-15-5	08-31-17
USDA	Federal		P330-13-00319	11-26-16 *
Virginia	NELAP	3	460175	09-14-17
Washington	State Program	10	C971	01-12-17 *
West Virginia DEP	State Program	3	210	12-31-16 *
Wisconsin	State Program	5	999518190	08-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

CINCINNATI

Chain of Custody Record

1.4/C1.4
0.6/C0.6

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

210501

Client Information	Sampler: MORGAN TODD	Lab PM: O'Meara, Patrick J	Carrier Tracking No(s):	COC No: 240-39121-17168.1
Client Contact: Jim Shaw	Phone:	E-Mail: patrick.omeara@testamericainc.com		Page: Page 1 of 1
Company: Parsons Corporation				Job #:
Address: 2443 Crowne Point Drive	Due Date Requested:			
City: Cincinnati	TAT Requested (days): STANDARD			
State, Zip: OH, 45241				
Phone: 513-317-2984(Tel)	PO #: 4500814287			
Email: Jim.Shaw@parsons.com	WO #:			
Project Name: DOW Cincinnati - GW Sampling	Project #: 24009047			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOCs	6010B, 7420A	8270C, BNAs TCL/APP-IX/ANILINE	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N		
20161214UAW10-50V 50N	12/14/16	1630	G	W	N	N	X	X	X		
20161214UAW22-20V 16N	12/14/16	1715	G	W	N	N	X	X	X		
20161215UAW24-70V 68N	12/15/16	1050	G	W	N	N	X	X	X		
20161215UAW10-80V 77N	12/15/16	1450	G	W	N	N	X	X	X		
20161214MW-EPA-3V 14N	12/14/16	1615	G	W	N	N	X	X	X		
20161214UAW18-20V 15N	12/14/16	1745	G	W	N	N	X	X	X		
20161215UAW27-50V 43N	12/15/16	1045	G	W	N	N	X	X	X		
20161215UAW19-80V 74N	12/15/16	1450	G	W	N	N	X	X	X		
20161215CINRB-2	12/15/16	1700	G	W	N	N	X	X	X		
TRIP BLANK	LAB	LAB	G	W	N	N	X				

240-73513 Chain of Custody

X = UNPRESERVED BOTTLES

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	12/14/15 1543	PARSONS		12/14/15 1543	TAI
	12/16/15 1612	TAI	Werry Brun	12/17/16 0800	TA Can

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

12/29/2016

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 73513
Canton Facility

Client Parsons Site Name _____ Cooler unpacked by: Doug Burns

Cooler Received on 12/17/16 Opened on 12/17/16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other Clipper

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other Multiple

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☑ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
   IR GUN #36 (CF +1.1°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 each (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? Yes (No)
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Are these work share samples? Yes (No)
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? TB (Yes) No NA pH Strip Lot# **HC682547**
12. Were VOAs on the COC? (Yes) No
13. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # covered (Yes) No
15. Was a LL Hg or Me Hg trip blank present? _____ Yes (No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

COC=20161215UAW19-80V74N* time=1450, Label times=
1445 - will log time per COC.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) 20161215UAW19-80V74NA+ 20161215CINRB-2* metals bottles were further preserved in the laboratory.
Time preserved: 0915 Preservative(s) added/Lot number(s): 0000148204

TestAmerica Multiple Cooler Receipt Form/Narrative
Canton Facility

Login # : 73513

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
TA No #	8	1.4	1.4	ICE
CINN	d	0.6	0.6	1

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
20161214UAW10-50V50N	240-73513-F-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161214UAW22-20V16N	240-73513-F-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161215UAW24-70V68N	240-73513-F-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161215UAW10-80V77N	240-73513-F-4	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161214MW-EPA-3V14N	240-73513-F-5	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161214UAW18-20V15N	240-73513-F-6	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161215UAW27-50V43N	240-73513-F-7	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161215UAW19-80V74N	240-73513-F-8	Plastic 500ml - with Nitric Acid	<2	_____	_____
20161215CINRB-2	240-73513-F-9	Plastic 500ml - with Nitric Acid	<2	_____	_____

PARSONS

Appendix D

Analytical Data Review Report

DATA VALIDATION REPORT

DECEMBER 2016 GROUNDWATER SAMPLING

Prepared For:

Rohm and Haas Chemicals LLC

Cincinnati, Ohio

Prepared By:

PARSONS

301 Plainfield Rd, Suite 350
Syracuse, New York 13212
Phone: (315) 451-9560
Fax: (315) 451-9570

FEBRUARY 2017

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LIST OF ATTACHMENTS

ATTACHMENT A VALIDATED LABORATORY DATA

SECTION 1

DATA USABILITY SUMMARY

Groundwater samples were collected as part of the December 2016 groundwater sampling event from the Cincinnati site on December 2, 2016 through December 15, 2016. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- USEPA National Functional Guidelines for Superfund Organic Methods Data Review (EPA-540-R-016-002, September 2016),
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA-540-R-016-001, September 2016). and
- USEPA SW-846 analytical methodologies.

The analytical laboratory for this project was Test America Laboratory (TAL) in North Canton, Ohio. This laboratory is certified to conduct project analyses through the National Environmental Laboratory Accreditation Program (NELAP).

1.1 LABORATORY DATA PACKAGES

The laboratory Level 2 data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 9-14 days for the samples.

The laboratory Level 2 data packages received from TAL were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a COC record, and received at TAL within one to two days of sampling. All samples were received intact and in good condition at TAL.

1.3 LABORATORY ANALYTICAL METHODS

The groundwater samples were collected from the site and analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and metals. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.3. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical method in Section 2 of this data validation report. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given,

"J+" - estimated biased high at the value given,

"J-" - estimated biased low at the value given,

"N" - presumptive evidence at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

Groundwater samples collected from the site were analyzed for volatiles using the USEPA SW-846 8260B analytical method. Certain reported results for these samples were qualified as estimated based upon sample holding times. The reported volatile analytical results were 100% complete (i.e., usable) for the data presented by TAL. PARCC requirements were met.

1.3.2 Semivolatile Organic Analysis

Groundwater samples collected from the site were analyzed for semivolatiles using the USEPA SW-846 8270C analytical method. Certain reported results for these samples were qualified as estimated based upon surrogate recoveries, laboratory control sample recoveries, and instrument calibrations. The reported semivolatile analytical results were 100% complete (i.e., usable) for the data presented by TAL. PARCC requirements were met.

1.3.3 Metals Analysis

Groundwater samples collected from the site were analyzed for metals using the USEPA SW-846 6010B/7470A analytical methods. Certain reported results for these samples were qualified as estimated based upon field duplicate precision. The reported metals results were considered 100% complete (i.e., usable) for the data presented by TAL. PARCC requirements were met.

SECTION 2

DATA VALIDATION REPORT

2.1 GROUNDWATER SAMPLES

Data review has been completed for data packages generated by TAL containing groundwater samples collected from the site. These samples were contained within sample delivery groups (SDGs) 240-72811-1, 240-72916-1, 240-73120-1, 240-73181-1, 240-73378-1, and 240-73513-1. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data were tabulated and are presented in Attachment A.

Data validation was performed for all samples in accordance with the USEPA National Functional Guidelines for organic and inorganic data review and the USEPA SW-846 analytical methodologies. This data validation and usability report is presented by analysis type.

2.1.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip/field equipment blank contamination
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of holding times, MS/MSD precision and accuracy, LCS recoveries, and blank contamination as discussed below.

Holding Times

It was noted in the laboratory's case narrative that sample 20161209UAW08-20V15N was received by the laboratory with a pH>2. This sample exceeded the 7-day analytical holding time for unpreserved volatile samples by four days. Therefore, the results for this sample were considered estimated with positive results qualified "J" and nondetected results qualified "UJ".

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for all spiked compounds with the exception of the low MS accuracy result for 1,2-dichlorobenzene (60%R; QC limit 62-123%R), the high MSD accuracy result for carbon tetrachloride (156%R; QC limit 51-154%R), and the high MS/MSD precision results for acetone (45%RPD; QC limit 0-35%RPD), chloroethane (36%RPD; QC limit 0-35%RPD), 1,2-dibromo-3-chloropropane (46%RPD; QC limit 0-35%RPD), dichlorodifluoromethane (38%RPD; QC limit 0-35%RPD), and 1,2,4-trichlorobenzene (50%RPD; QC limit 0-35%RPD) during the spiked analyses of sample 20161208UAW26-70V72N. Validation qualification of the parent sample was not required.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the high LCS recoveries for carbon tetrachloride (151%R, 153%R, 150%R; QC limit 69-149%R) associated with samples in SDGs 240-72916-1, 240-73120-1, and 240-73181-1; and the high LCS recovery for trichlorofluoromethane (170%R; QC limit 56-161%R) associated with samples in SDG 240-73120-1. Validation qualification of these samples was not required since these compounds were not detected.

Blank Contamination

The QC trip blank 20161202TRIP BLANKS associated with samples in SDG 240-72811-1 contained chlorobenzene below the reporting limit at a concentration of 0.42 µg/L; the field QC blank 20161202CINFB-1 associated with the groundwater samples contained toluene below the reporting limit at a concentration of 0.43 µg/L; the laboratory method blanks associated with samples in SDGs 240-72811-1, 240-73120-1, 240-73181-1, and 240-73378-1 contained methylene chloride at concentrations of 0.959, 0.638, 0.665, 0.856, 0.754, 1.11, and 0.754 µg/L; the QC trip blank 20161208TRIP BLANK associated with samples in SDG 240-73120-1 contained chlorobenzene, 1,2-dichlorobenzene, and 1,4-dichlorobenzene at concentrations of 0.63, 1.7, and 0.66 µg/L, respectively; and the QC trip blank 20161209TRIP BLANK associated with samples in SDG 240-73181-1 contained chlorobenzene below the reporting limit at a concentration of 0.36 µg/L . Therefore, sample results for these compounds less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Usability

All volatile results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile data

presented by TAL were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

2.1.2 Semivolatiles

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and field equipment blank contamination
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of holding times, surrogate recoveries, MS/MSD precision and accuracy, LCS recoveries, and blank contamination as discussed below.

Holding Times

All extraction and analytical holding times were within criteria with the exception of the extraction holding time for the reanalyzed samples in SDGs 240-73378-1 and 240-73513-1 which exceeded the 7-day requirement by two to three days. These samples were reanalyzed outside of holding times due to noncompliant surrogate recoveries during the original analysis. Validation qualification of these samples was not required since original sample results were reported for these samples.

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC limits with the exception of the low recovery for the surrogate terphenyl-d14 (QC limit 43-120%R) in samples with lab sample IDs 240-73378-10 (39%R) and 240-73513-2 (35%R); low recovery for the surrogate 2-fluorobiphenyl (QC limit 44-120%R) in sample with lab ID 240-73378-2 (37%R); low recovery for the surrogate 2,4,6-tribromophenol (QC limit 36-120%R) in samples with lab IDs 240-73378-8 (20%R), -10 (35%R), and 240-73513-5 (33%R); and the low recovery for the surrogate nitrobenzene-d5 (QC limit 44-120%R) in sample with lab ID 240-73378-2 (43%R). These samples were reextracted outside of holding times and reanalyzed yielding similar surrogate recoveries. Validation qualification was not required for those samples where only one acid or one base-neutral surrogate was noncompliant. However, base-neutral results for sample

20161213MW-EPA-1V14N were considered estimated, possibly biased low, with positive results qualified "J-" and nondetected results qualified "UJ".

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked project samples with the exception of the MS/MSD precision results for benzaldehyde (46%RPD; QC limit 0-35%RPD) and pentachlorophenol (38%RPD; QC limit 0-31%RPD) during the spiked analyses of sample 20161202UAW09-60V54N; and the MS/MSD precision result for benzaldehyde (62%RPD; QC limit 0-35%RPD) during the spiked analyses of sample 20161208UAW26-70V72N. Validation qualification of the parent samples was not required.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the low LCS recoveries for diethylphthalate (62%R, 57%R; QC limit 64-120%R), dimethylphthalate (48%R, 42%R; QC limit 63-120%R), and butylbenzylphthalate (59%R; QC limit 60-120%R) associated with samples with lab IDs 240-73378-1 and -3; and the high LCS recovery for benzaldehyde (140%R; QC limit 10-120%R) associated with samples with lab IDs 240-73513-3, -4, -7, -8, and -9. Validation qualification was not required for benzaldehyde since this compound was not detected in the associated samples. However, sample results for those compounds where LCS recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J-" and nondetected results qualified "UJ" for the affected samples.

Blank Contamination

The laboratory method blank associated with samples in SDG 240-72811-1 contained di-n-butylphthalate below the reporting limit at a concentration of 0.692 µg/L; the field QC blank 20161202CINFB-1 associated with groundwater samples contained di-n-butylphthalate below the reporting limit at a concentration of 0.51 µg/L; the laboratory method blank associated with samples in SDG 240-72916-1 and samples with lab IDs 240-73120-1, -2, -6, -7, and -8 contained caprolactam and di-n-butylphthalate below the reporting limit at concentrations of 0.984 and 0.506 µg/L, respectively; and the QC equipment blank 20161215CINRB-2 associated with samples in SDG 240-73513-1 contained diethylphthalate and di-n-butylphthalate below the reporting limit at concentrations of 0.56 and 0.81 µg/L, respectively. Therefore, results for these compounds less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Usability

All semivolatile results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The semivolatile data presented by TAL were 100% complete (i.e., usable). The validated semivolatile laboratory data are tabulated and presented in Attachment A.

It was noted in the laboratory's case narrative that there were continuing calibration outliers for 3-nitroaniline and pentachlorophenol associated with samples with lab IDs 240-73120-1, -2, -6, -7, and -8. Therefore, the results for these compounds which were nondetects were considered estimated and qualified "UJ" for the affected samples.

2.1.3 Metals

The following items were reviewed for compliancy in the metals analysis:

- Custody documentation
- Holding times
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory preparation blank and QC field equipment blank contamination
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of blank contamination and field duplicate precision as discussed below.

Blank Contamination

The laboratory preparation blank associated with samples in SDG 240-72916-1 contained iron below the reporting limit at a concentration of 38.2 µg/L; the laboratory preparation blank associated with samples in SDG 240-73120-1 contained potassium and sodium below the reporting limits at concentrations of 287 and 585 µg/L, respectively; the laboratory preparation blank associated with samples in SDG 240-73181-1 contained potassium and sodium below the reporting limits at concentrations of 142 and 421 µg/L, respectively; the laboratory preparation blank associated with samples in SDG 240-73378-1 contained sodium below the reporting limit at a concentration of 339 µg/L; the QC equipment blank 20161213CINRB-1 associated with samples in SDG 240-73378-1 contained aluminum, barium, calcium, chromium, copper, iron, sodium, and tin below the reporting limits at concentrations of 96, 7.2, 820, 1.3, 8.4, 50, 1900, and 10 µg/L, respectively; the laboratory preparation blank associated with samples in SDG 240-73513-1 contained sodium and mercury below the reporting limits at concentrations of 711 and 0.101 µg/L, respectively; and the QC equipment blank 20161215CINRB-2 associated with samples in SDG 240-73513-1 contained aluminum, barium, calcium, chromium, copper, iron,

sodium, vanadium, and tin below the reporting limits at concentrations of 120, 7.7, 800, 0.64, 9.0, 54, 1500, 5.4, and 6.4 µg/L, respectively. Therefore, results for these analytes less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with %RPDs less than 30% with the exception of the field duplicate precision for aluminum (83%RPD) associated with sample 20161207UAW02-40V41N and its field duplicate sample 20161207UAW02-40V41FD. Therefore, aluminum results for these samples were considered estimated and qualified "J".

Usability

All metals results for the groundwater samples were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The metals data for the groundwater samples presented by TAL were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

It was noted in the laboratory's case narrative that the continuing calibration verification for beryllium was exceeded for all samples in SDG 240-73181-1. Validation qualification of the beryllium results was not required for these samples since beryllium was not detected.

ATTACHMENT A

VALIDATED LABORATORY DATA

			sys_loc_code	CIN		CIN		CIN		CIN		CIN	
			sys_sample_code	20161202CINFB-1		20161202TRIP BLANKS		20161205TRIP BLANK		20161208TRIP BLANK		20161209TRIP BLANK	
			matrix_code	WQ		WQ		WQ		WQ		WQ	
			field_sdg	240-72811		240-72811		240-72916		240-73120		240-73181	
			lab_sample_id	240-72811-2		240-72811-3		240-72916-5		240-73120-12		240-73181-9	
			sample_date	12/2/2016		12/2/2016		12/5/2016		12/8/2016		12/9/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW6010	7429-90-5	ALUMINUM (FUME OR DUST)	ug/l	200	U								
SW6010	7440-36-0	ANTIMONY	ug/l	10	U								
SW6010	7440-38-2	ARSENIC	ug/l	10	U								
SW6010	7440-39-3	BARIUM	ug/l	200	U								
SW6010	7440-41-7	BERYLLIUM	ug/l	5	U								
SW6010	7440-43-9	CADMIUM	ug/l	2	U								
SW6010	7440-70-2	CALCIUM METAL	ug/l	5000	U								
SW6010	7440-47-3	CHROMIUM, TOTAL	ug/l	5	U								
SW6010	7440-48-4	COBALT	ug/l	7	U								
SW6010	7440-50-8	COPPER	ug/l	25	U								
SW6010	7439-89-6	IRON	ug/l	100	U								
SW6010	7439-92-1	LEAD	ug/l	5	U								
SW6010	7439-95-4	MAGNESIUM	ug/l	5000	U								
SW6010	7439-96-5	MANGANESE	ug/l	15	U								
SW6010	7440-02-0	NICKEL	ug/l	40	U								
SW6010	7440-09-7	POTASSIUM	ug/l	5000	U								
SW6010	7782-49-2	SELENIUM	ug/l	15	U								
SW6010	7440-22-4	SILVER	ug/l	5	U								
SW6010	7440-23-5	SODIUM	ug/l	5000	U								
SW6010	7440-28-0	THALLIUM	ug/l	10	U								
SW6010	7440-31-5	TIN	ug/l	100	U								
SW6010	7440-62-2	VANADIUM (FUME OR DUST)	ug/l	10	U								
SW6010	7440-66-6	ZINC	ug/l	50	U								
SW7470	7439-97-6	MERCURY	ug/l	0.2	U								
SW8260	71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-34-3	1,1-DICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-35-4	1,1-DICHLOROETHYLENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ug/l	2	U	2	U	2	U	2	U	2	U
SW8260	106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	95-50-1	1,2-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	1.7		1	U
SW8260	107-06-2	1,2-DICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	78-87-5	1,2-DICHLOROPROPANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	106-46-7	1,4-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	0.66	J	1	U
SW8260	67-64-1	ACETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	71-43-2	BENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-27-4	BROMODICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	74-83-9	BROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-15-0	CARBON DISULFIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	56-23-5	CARBON TETRACHLORIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-69-4	CFC-11	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-71-8	CFC-12	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	76-13-1	CHLORINATED FLUOROCARBON (FREON 113)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	108-90-7	CHLOROBENZENE	ug/l	1	U	0.42	J	1	U	0.63	J	0.36	J
SW8260	124-48-1	CHLORODIBROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U

			sys_loc_code	CIN		CIN		CIN		CIN		CIN	
			sys_sample_code	20161202CINFB-1		20161202TRIP BLANKS		20161205TRIP BLANK		20161208TRIP BLANK		20161209TRIP BLANK	
			matrix_code	WQ		WQ		WQ		WQ		WQ	
			field_sdg	240-72811		240-72811		240-72916		240-73120		240-73181	
			lab_sample_id	240-72811-2		240-72811-3		240-72916-5		240-73120-12		240-73181-9	
			sample_date	12/2/2016		12/2/2016		12/5/2016		12/8/2016		12/9/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8260	75-00-3	CHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	67-66-3	CHLOROFORM	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	74-87-3	CHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	10061-01-5	cis-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	110-82-7	CYCLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-09-2	DICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-41-4	ETHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	541-73-1	M-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-20-9	METHYL ACETATE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-10-1	METHYL ISOBUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	591-78-6	METHYL N-BUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-88-3	METHYLBENZENE	ug/l	0.43	J	1	U	1	U	1	U	1	U
SW8260	108-87-2	METHYLCYLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-42-5	STYRENE (MONOMER)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	10061-02-6	trans-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-25-2	TRIBOMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-01-6	TRICHLOROETHYLENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-01-4	VINYL CHLORIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	1330-20-7	XYLENES, TOTAL	ug/l	2	U	2	U	2	U	2	U	2	U
SW8270	218-01-9	1,2-BENZPHENANTHRACENE	ug/l	0.2	U								
SW8270	95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	5	U								
SW8270	88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	5	U								
SW8270	120-83-2	2,4-DICHLOROPHENOL	ug/l	2	U								
SW8270	105-67-9	2,4-DIMETHYLPHENOL	ug/l	2	U								
SW8270	51-28-5	2,4-DINITROPHENOL	ug/l	40	U								
SW8270	121-14-2	2,4-DINITROTOLUENE	ug/l	5	U								
SW8270	606-20-2	2,6-DINITROTOLUENE	ug/l	5	U								
SW8270	91-58-7	2-CHLORONAPHTHALENE	ug/l	1	U								
SW8270	95-57-8	2-CHLOROPHENOL	ug/l	1	U								
SW8270	91-57-6	2-METHYLNAPHTHALENE	ug/l	0.2	U								
SW8270	95-48-7	2-METHYLPHENOL	ug/l	1	U								
SW8270	88-74-4	2-NITROANILINE	ug/l	2	U								
SW8270	88-75-5	2-NITROPHENOL	ug/l	2	U								
SW8270	91-94-1	3,3'-DICHLOROBENZIDINE	ug/l	5	U								
SW8270	78-59-1	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	ug/l	1	U								
SW8270	99-09-2	3-NITROANILINE	ug/l	2	U								
SW8270	534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	5	U								
SW8270	101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	2	U								
SW8270	59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	2	U								
SW8270	7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	2	U								
SW8270	100-02-7	4-NITROPHENOL	ug/l	5	U								

			sys_loc_code	CIN		CIN		CIN		CIN		CIN	
			sys_sample_code	20161202CINFB-1		20161202TRIP BLANKS		20161205TRIP BLANK		20161208TRIP BLANK		20161209TRIP BLANK	
			matrix_code	WQ		WQ		WQ		WQ		WQ	
			field_sdg	240-72811		240-72811		240-72916		240-73120		240-73181	
			lab_sample_id	240-72811-2		240-72811-3		240-72916-5		240-73120-12		240-73181-9	
			sample_date	12/2/2016		12/2/2016		12/5/2016		12/8/2016		12/9/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8270	83-32-9	ACENAPHTHENE	ug/l	0.2	U								
SW8270	208-96-8	ACENAPHTHYLENE	ug/l	0.2	U								
SW8270	98-86-2	ACETOPHENONE	ug/l	1	U								
SW8270	62-53-3	ANILINE	ug/l	5	U								
SW8270	120-12-7	ANTHRACENE	ug/l	0.2	U								
SW8270	1912-24-9	ATRAZINE	ug/l	2	U								
SW8270	100-52-7	BENZALDEHYDE	ug/l	2	U								
SW8270	56-55-3	BENZO(A)ANTHRACENE	ug/l	0.2	U								
SW8270	50-32-8	BENZO(A)PYRENE	ug/l	0.2	U								
SW8270	205-99-2	BENZO(B)FLUORANTHENE	ug/l	0.2	U								
SW8270	191-24-2	BENZO(G,H,I)PERYLENE	ug/l	0.2	U								
SW8270	207-08-9	BENZO(K)FLUORANTHENE	ug/l	0.2	U								
SW8270	85-68-7	BENZYL BUTYL PHTHALATE	ug/l	1	U								
SW8270	92-52-4	BIPHENYL (DIPHENYL)	ug/l	1	U								
SW8270	111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	1	U								
SW8270	111-44-4	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ug/l	1	U								
SW8270	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ug/l	1	U								
SW8270	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	2	U								
SW8270	105-60-2	CAPROLACTAM	ug/l	5	U								
SW8270	86-74-8	CARBAZOLE	ug/l	1	U								
SW8270	MEPH1314	CRESOLS, M & P	ug/l	2	U								
SW8270	53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	0.2	U								
SW8270	132-64-9	DIBENZOFURAN	ug/l	1	U								
SW8270	84-66-2	DIETHYL PHTHALATE	ug/l	1	U								
SW8270	131-11-3	DIMETHYL PHTHALATE	ug/l	1	U								
SW8270	84-74-2	DI-N-BUTYL PHTHALATE	ug/l	1	U								
SW8270	117-84-0	DI-N-OCTYLPHTHALATE	ug/l	1	U								
SW8270	206-44-0	FLUORANTHENE	ug/l	0.2	U								
SW8270	86-73-7	FLUORENE	ug/l	0.2	U								
SW8270	87-68-3	HEXACHLORO-1,3-BUTADIENE	ug/l	1	U								
SW8270	118-74-1	HEXACHLOROBENZENE	ug/l	1	U								
SW8270	77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	10	U								
SW8270	67-72-1	HEXACHLOROETHANE	ug/l	1	U								
SW8270	193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	0.2	U								
SW8270	91-20-3	NAPHTHALENE	ug/l	0.2	U								
SW8270	98-95-3	NITROBENZENE	ug/l	1	U								
SW8270	621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	1	U								
SW8270	86-30-6	N-NITROSODIPHENYLAMINE	ug/l	1	U								
SW8270	106-47-8	P-CHLOROANILINE	ug/l	2	U								
SW8270	87-86-5	PENTACHLOROPHENOL	ug/l	40	U								
SW8270	85-01-8	PHENANTHRENE	ug/l	0.2	U								
SW8270	108-95-2	PHENOL	ug/l	1	U								
SW8270	100-01-6	P-NITROANILINE	ug/l	2	U								
SW8270	129-00-0	PYRENE	ug/l	0.2	U								

			sys_loc_code	CIN		CIN		CIN		CIN		MW-EPA-1	
			sys_sample_code	20161213CINRB-1		20161213TRIP BLANK		20161214TRIP BLANK		20161215CINRB-2		20161213MW-EPA-1V14N	
			matrix_code	WQ		WQ		WQ		WQ		WG	
			field_sdg	240-73378		240-73378		240-73513		240-73513		240-73378	
			lab_sample_id	240-73378-3		240-73378-11		240-73513-10		240-73513-9		240-73378-2	
			sample_date	12/13/2016		12/13/2016		12/14/2016		12/15/2016		12/13/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW6010	7429-90-5	ALUMINUM (FUME OR DUST)	ug/l	96	J					120	J	200	U
SW6010	7440-36-0	ANTIMONY	ug/l	10	U					10	U	18	
SW6010	7440-38-2	ARSENIC	ug/l	10	U					10	U	340	
SW6010	7440-39-3	BARIUM	ug/l	7.2	J					7.7	J	5300	
SW6010	7440-41-7	BERYLLIUM	ug/l	5	U					5	U	0.39	J
SW6010	7440-43-9	CADMIUM	ug/l	2	U					2	U	2	U
SW6010	7440-70-2	CALCIUM METAL	ug/l	820	J					800	J	390000	
SW6010	7440-47-3	CHROMIUM, TOTAL	ug/l	1.3	J					0.64	J	39	
SW6010	7440-48-4	COBALT	ug/l	7	U					7	U	7	U
SW6010	7440-50-8	COPPER	ug/l	8.4	J					9	J	25	U
SW6010	7439-89-6	IRON	ug/l	50	J					54	J	25000	
SW6010	7439-92-1	LEAD	ug/l	5	U					5	U	5	U
SW6010	7439-95-4	MAGNESIUM	ug/l	5000	U					5000	U	330000	
SW6010	7439-96-5	MANGANESE	ug/l	15	U					15	U	200	
SW6010	7440-02-0	NICKEL	ug/l	40	U					40	U	58	
SW6010	7440-09-7	POTASSIUM	ug/l	5000	U					5000	U	27000	
SW6010	7782-49-2	SELENIUM	ug/l	15	U					15	U	15	U
SW6010	7440-22-4	SILVER	ug/l	5	U					5	U	5	U
SW6010	7440-23-5	SODIUM	ug/l	1900	J					1500	J	1200000	
SW6010	7440-28-0	THALLIUM	ug/l	10	U					10	U	10	U
SW6010	7440-31-5	TIN	ug/l	10	J					6.4	J	4200	
SW6010	7440-62-2	VANADIUM (FUME OR DUST)	ug/l	10	U					5.4	J	250	
SW6010	7440-66-6	ZINC	ug/l	50	U					50	U	24	J
SW7470	7439-97-6	MERCURY	ug/l	0.2	U					0.2	U	0.2	U
SW8260	71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	75-34-3	1,1-DICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	75-35-4	1,1-DICHLOROETHYLENE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ug/l	2	U	2	U	2	U	2	U	400	U
SW8260	106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	95-50-1	1,2-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	300	
SW8260	107-06-2	1,2-DICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	78-87-5	1,2-DICHLOROPROPANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	106-46-7	1,4-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	330	
SW8260	67-64-1	ACETONE	ug/l	10	U	10	U	10	U	10	U	38000	
SW8260	71-43-2	BENZENE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	75-27-4	BROMODICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	74-83-9	BROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	75-15-0	CARBON DISULFIDE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	56-23-5	CARBON TETRACHLORIDE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	75-69-4	CFC-11	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	75-71-8	CFC-12	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	76-13-1	CHLORINATED FLUOROCARBON (FREON 113)	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	108-90-7	CHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	5200	
SW8260	124-48-1	CHLORODIBROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	200	U

			sys_loc_code	CIN		CIN		CIN		CIN		MW-EPA-1	
			sys_sample_code	20161213CINRB-1		20161213TRIP BLANK		20161214TRIP BLANK		20161215CINRB-2		20161213MW-EPA-1V14N	
			matrix_code	WQ		WQ		WQ		WQ		WG	
			field_sdg	240-73378		240-73378		240-73513		240-73513		240-73378	
			lab_sample_id	240-73378-3		240-73378-11		240-73513-10		240-73513-9		240-73378-2	
			sample_date	12/13/2016		12/13/2016		12/14/2016		12/15/2016		12/13/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8260	75-00-3	CHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	67-66-3	CHLOROFORM	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	74-87-3	CHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	10061-01-5	cis-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	110-82-7	CYCLOHEXANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	75-09-2	DICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	100-41-4	ETHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	541-73-1	M-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	79-20-9	METHYL ACETATE	ug/l	10	U	10	U	10	U	10	U	2000	U
SW8260	78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10	U	10	U	10	U	10	U	2000	U
SW8260	108-10-1	METHYL ISOBUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	2000	U
SW8260	591-78-6	METHYL N-BUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	2000	U
SW8260	108-88-3	METHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	108-87-2	METHYLCYLOHEXANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	100-42-5	STYRENE (MONOMER)	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	10061-02-6	trans-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	75-25-2	TRIBOMOMETHANE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	79-01-6	TRICHLOROETHYLENE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	75-01-4	VINYL CHLORIDE	ug/l	1	U	1	U	1	U	1	U	200	U
SW8260	1330-20-7	XYLENES, TOTAL	ug/l	2	U	2	U	2	U	2	U	400	U
SW8270	218-01-9	1,2-BENZPHENANTHRACENE	ug/l	0.19	U					0.19	U	1.1	UJ
SW8270	95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	4.8	U					4.6	U	27	U
SW8270	88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	4.8	U					4.6	U	27	U
SW8270	120-83-2	2,4-DICHLOROPHENOL	ug/l	1.9	U					1.9	U	11	U
SW8270	105-67-9	2,4-DIMETHYLPHENOL	ug/l	1.9	U					1.9	U	11	U
SW8270	51-28-5	2,4-DINITROPHENOL	ug/l	38	U					37	U	220	U
SW8270	121-14-2	2,4-DINITROTOLUENE	ug/l	4.8	U					4.6	U	27	UJ
SW8270	606-20-2	2,6-DINITROTOLUENE	ug/l	4.8	U					4.6	U	27	UJ
SW8270	91-58-7	2-CHLORONAPHTHALENE	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	95-57-8	2-CHLOROPHENOL	ug/l	0.96	U					0.93	U	9.8	
SW8270	91-57-6	2-METHYLNAPHTHALENE	ug/l	0.19	U					0.19	U	1.6	J-
SW8270	95-48-7	2-METHYLPHENOL	ug/l	0.96	U					0.93	U	5.4	U
SW8270	88-74-4	2-NITROANILINE	ug/l	1.9	U					1.9	U	11	UJ
SW8270	88-75-5	2-NITROPHENOL	ug/l	1.9	U					1.9	U	11	U
SW8270	91-94-1	3,3'-DICHLOROBENZIDINE	ug/l	4.8	U					4.6	U	27	UJ
SW8270	78-59-1	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	99-09-2	3-NITROANILINE	ug/l	1.9	U					1.9	U	11	UJ
SW8270	534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	4.8	U					4.6	U	27	U
SW8270	101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	1.9	U					1.9	U	11	UJ
SW8270	59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	1.9	U					1.9	U	11	U
SW8270	7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	1.9	U					1.9	U	11	UJ
SW8270	100-02-7	4-NITROPHENOL	ug/l	4.8	U					4.6	U	27	U

			sys_loc_code	CIN		CIN		CIN		CIN		MW-EPA-1	
			sys_sample_code	20161213CINRB-1		20161213TRIP BLANK		20161214TRIP BLANK		20161215CINRB-2		20161213MW-EPA-1V14N	
			matrix_code	WQ		WQ		WQ		WQ		WG	
			field_sdg	240-73378		240-73378		240-73513		240-73513		240-73378	
			lab_sample_id	240-73378-3		240-73378-11		240-73513-10		240-73513-9		240-73378-2	
			sample_date	12/13/2016		12/13/2016		12/14/2016		12/15/2016		12/13/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8270	83-32-9	ACENAPHTHENE	ug/l	0.19	U					0.19	U	1.1	UJ
SW8270	208-96-8	ACENAPHTHYLENE	ug/l	0.19	U					0.19	U	24	J-
SW8270	98-86-2	ACETOPHENONE	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	62-53-3	ANILINE	ug/l	4.8	U					4.6	U	130	J-
SW8270	120-12-7	ANTHRACENE	ug/l	0.19	U					0.19	U	3.2	J-
SW8270	1912-24-9	ATRAZINE	ug/l	1.9	U					1.9	U	11	UJ
SW8270	100-52-7	BENZALDEHYDE	ug/l	1.9	U					1.9	U	11	UJ
SW8270	56-55-3	BENZO(A)ANTHRACENE	ug/l	0.19	U					0.19	U	1.1	UJ
SW8270	50-32-8	BENZO(A)PYRENE	ug/l	0.19	U					0.19	U	1.1	UJ
SW8270	205-99-2	BENZO(B)FLUORANTHENE	ug/l	0.19	U					0.19	U	1.1	UJ
SW8270	191-24-2	BENZO(G,H,I)PERYLENE	ug/l	0.19	U					0.19	U	1.1	UJ
SW8270	207-08-9	BENZO(K)FLUORANTHENE	ug/l	0.19	U					0.19	U	1.1	UJ
SW8270	85-68-7	BENZYL BUTYL PHTHALATE	ug/l	0.96	UJ					0.93	U	5.4	UJ
SW8270	92-52-4	BIPHENYL (DIPHENYL)	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	111-44-4	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	1.9	U					1.9	U	11	UJ
SW8270	105-60-2	CAPROLACTAM	ug/l	4.8	U					4.6	U	27	UJ
SW8270	86-74-8	CARBAZOLE	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	MEPH1314	CRESOLS, M & P	ug/l	1.9	U					1.9	U	8.3	J
SW8270	53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	0.19	U					0.19	U	1.1	UJ
SW8270	132-64-9	DIBENZOFURAN	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	84-66-2	DIETHYL PHTHALATE	ug/l	0.96	UJ					0.56	J	5.4	UJ
SW8270	131-11-3	DIMETHYL PHTHALATE	ug/l	0.96	UJ					0.93	U	5.4	UJ
SW8270	84-74-2	DI-N-BUTYL PHTHALATE	ug/l	0.96	U					0.81	J	5.4	UJ
SW8270	117-84-0	DI-N-OCTYLPHTHALATE	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	206-44-0	FLUORANTHENE	ug/l	0.19	U					0.19	U	3.7	J-
SW8270	86-73-7	FLUORENE	ug/l	0.19	U					0.19	U	1.1	UJ
SW8270	87-68-3	HEXACHLORO-1,3-BUTADIENE	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	118-74-1	HEXACHLOROBENZENE	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	9.6	U					9.3	U	54	UJ
SW8270	67-72-1	HEXACHLOROETHANE	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	0.19	U					0.19	U	1.1	UJ
SW8270	91-20-3	NAPHTHALENE	ug/l	0.19	U					0.19	U	11	J-
SW8270	98-95-3	NITROBENZENE	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	86-30-6	N-NITROSODIPHENYLAMINE	ug/l	0.96	U					0.93	U	5.4	UJ
SW8270	106-47-8	P-CHLOROANILINE	ug/l	1.9	U					1.9	U	11	UJ
SW8270	87-86-5	PENTACHLOROPHENOL	ug/l	38	U					37	U	220	U
SW8270	85-01-8	PHENANTHRENE	ug/l	0.19	U					0.19	U	9.1	J-
SW8270	108-95-2	PHENOL	ug/l	0.96	U					0.93	U	3.8	J
SW8270	100-01-6	P-NITROANILINE	ug/l	1.9	U					1.9	U	11	UJ
SW8270	129-00-0	PYRENE	ug/l	0.19	U					0.19	U	9.3	J-

			sys_loc_code	MW-EPA-2		MW-EPA-3		MW-EPA-4		UAW01-30		UAW01-80	
			sys_sample_code	20161214MW-EPA-2V16N		20161214MW-EPA-3V14N		20161208MW-EPA-4V19N		20161206UAW01-30V28.5N		20161206UAW01-80V76N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73378		240-73513		240-73120		240-72916		240-72916	
			lab_sample_id	240-73378-10		240-73513-5		240-73120-3		240-72916-2		240-72916-1	
			sample_date	12/14/2016		12/14/2016		12/8/2016		12/6/2016		12/6/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW6010	7429-90-5	ALUMINUM (FUME OR DUST)	ug/l	650		1400		200	U	200	U	200	U
SW6010	7440-36-0	ANTIMONY	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-38-2	ARSENIC	ug/l	10	U	10	U	7.3	J	4.6	J	3.8	J
SW6010	7440-39-3	BARIUM	ug/l	150	J	220		91	J	110	J	280	
SW6010	7440-41-7	BERYLLIUM	ug/l	0.3	J	0.28	J	5	U	0.22	J	5	U
SW6010	7440-43-9	CADMIUM	ug/l	0.6	J	0.72	J	2	U	2	U	0.31	J
SW6010	7440-70-2	CALCIUM METAL	ug/l	160000		270000		100000		120000		100000	
SW6010	7440-47-3	CHROMIUM, TOTAL	ug/l	220		220		7700		220		5	U
SW6010	7440-48-4	COBALT	ug/l	3.2	J	18		13		7	U	7	U
SW6010	7440-50-8	COPPER	ug/l	9.9	J	10	J	130		25	U	25	U
SW6010	7439-89-6	IRON	ug/l	1800		4300		16000		2400		8900	
SW6010	7439-92-1	LEAD	ug/l	5	U	3.2	J	5	U	5	U	5	U
SW6010	7439-95-4	MAGNESIUM	ug/l	47000		93000		25000		30000		28000	
SW6010	7439-96-5	MANGANESE	ug/l	320		910		250		580		420	
SW6010	7440-02-0	NICKEL	ug/l	130		290		660		47		40	U
SW6010	7440-09-7	POTASSIUM	ug/l	3000	J	2500	J	2600	J	6400		1400	J
SW6010	7782-49-2	SELENIUM	ug/l	15	U	15	U	15	U	15	U	15	U
SW6010	7440-22-4	SILVER	ug/l	5	U	5	U	5	U	5	U	5	U
SW6010	7440-23-5	SODIUM	ug/l	600000		84000		240000		330000		44000	
SW6010	7440-28-0	THALLIUM	ug/l	10	U	10	U	3.3	J	10	U	10	U
SW6010	7440-31-5	TIN	ug/l	20	J	100	U	30	J	3.7	J	100	U
SW6010	7440-62-2	VANADIUM (FUME OR DUST)	ug/l	10	U	8.8	J	41		10	U	10	U
SW6010	7440-66-6	ZINC	ug/l	23	J	93		50	U	50	U	50	U
SW7470	7439-97-6	MERCURY	ug/l	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
SW8260	71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-34-3	1,1-DICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-35-4	1,1-DICHLOROETHYLENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ug/l	2	U	2	U	2	U	2	U	2	U
SW8260	106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	95-50-1	1,2-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	107-06-2	1,2-DICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	78-87-5	1,2-DICHLOROPROPANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	106-46-7	1,4-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	67-64-1	ACETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	71-43-2	BENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-27-4	BROMODICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	74-83-9	BROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-15-0	CARBON DISULFIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	56-23-5	CARBON TETRACHLORIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-69-4	CFC-11	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-71-8	CFC-12	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	76-13-1	CHLORINATED FLUOROCARBON (FREON 113)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	108-90-7	CHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	124-48-1	CHLORODIBROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U

			sys_loc_code	MW-EPA-2		MW-EPA-3		MW-EPA-4		UAW01-30		UAW01-80	
			sys_sample_code	20161214MW-EPA-2V16N		20161214MW-EPA-3V14N		20161208MW-EPA-4V19N		20161206UAW01-30V28.5N		20161206UAW01-80V76N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73378		240-73513		240-73120		240-72916		240-72916	
			lab_sample_id	240-73378-10		240-73513-5		240-73120-3		240-72916-2		240-72916-1	
			sample_date	12/14/2016		12/14/2016		12/8/2016		12/6/2016		12/6/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8260	75-00-3	CHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	67-66-3	CHLOROFORM	ug/l	0.77	J	1	U	1	U	1	U	1	U
SW8260	74-87-3	CHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1	U	1	U	1	U	1	U	0.3	J
SW8260	10061-01-5	cis-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	110-82-7	CYCLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-09-2	DICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-41-4	ETHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	541-73-1	M-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-20-9	METHYL ACETATE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-10-1	METHYL ISOBUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	591-78-6	METHYL N-BUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-88-3	METHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	108-87-2	METHYLCYLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-42-5	STYRENE (MONOMER)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	56		1	U	1	U	1	U	1	U
SW8260	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	10061-02-6	trans-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-25-2	TRIBOMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-01-6	TRICHLOROETHYLENE	ug/l	0.41	J	1	U	1	U	1	U	1	U
SW8260	75-01-4	VINYL CHLORIDE	ug/l	1	U	1	U	1	U	1	U	2.9	
SW8260	1330-20-7	XYLENES, TOTAL	ug/l	2	U	2	U	2	U	2	U	2	U
SW8270	218-01-9	1,2-BENZPHENANTHRACENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	5.2	U	5	U	4.6	U	5.2	U	5.4	U
SW8270	88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	5.2	U	5	U	4.6	U	5.2	U	5.4	U
SW8270	120-83-2	2,4-DICHLOROPHENOL	ug/l	2.1	U	2	U	1.9	U	2.1	U	2.2	U
SW8270	105-67-9	2,4-DIMETHYLPHENOL	ug/l	2.1	U	2	U	1.9	U	2.1	U	2.2	U
SW8270	51-28-5	2,4-DINITROPHENOL	ug/l	42	U	40	U	37	U	42	U	43	U
SW8270	121-14-2	2,4-DINITROTOLUENE	ug/l	5.2	U	5	U	4.6	U	5.2	U	5.4	U
SW8270	606-20-2	2,6-DINITROTOLUENE	ug/l	5.2	U	5	U	4.6	U	5.2	U	5.4	U
SW8270	91-58-7	2-CHLORONAPHTHALENE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	95-57-8	2-CHLOROPHENOL	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	91-57-6	2-METHYLNAPHTHALENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	95-48-7	2-METHYLPHENOL	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	88-74-4	2-NITROANILINE	ug/l	2.1	U	2	U	1.9	U	2.1	U	2.2	U
SW8270	88-75-5	2-NITROPHENOL	ug/l	2.1	U	2	U	1.9	U	2.1	U	2.2	U
SW8270	91-94-1	3,3'-DICHLOROBENZIDINE	ug/l	5.2	U	5	U	4.6	U	5.2	U	5.4	U
SW8270	78-59-1	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	99-09-2	3-NITROANILINE	ug/l	2.1	U	2	U	1.9	U	2.1	UJ	2.2	UJ
SW8270	534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	5.2	U	5	U	4.6	U	5.2	U	5.4	U
SW8270	101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	2.1	U	2	U	1.9	U	2.1	U	2.2	U
SW8270	59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	2.1	U	2	U	1.9	U	2.1	U	2.2	U
SW8270	7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	2.1	U	2	U	1.9	U	2.1	U	2.2	U
SW8270	100-02-7	4-NITROPHENOL	ug/l	5.2	U	5	U	4.6	U	5.2	U	5.4	U

			sys_loc_code	MW-EPA-2		MW-EPA-3		MW-EPA-4		UAW01-30		UAW01-80	
			sys_sample_code	20161214MW-EPA-2V16N		20161214MW-EPA-3V14N		20161208MW-EPA-4V19N		20161206UAW01-30V28.5N		20161206UAW01-80V76N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73378		240-73513		240-73120		240-72916		240-72916	
			lab_sample_id	240-73378-10		240-73513-5		240-73120-3		240-72916-2		240-72916-1	
			sample_date	12/14/2016		12/14/2016		12/8/2016		12/6/2016		12/6/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8270	83-32-9	ACENAPHTHENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	208-96-8	ACENAPHTHYLENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	98-86-2	ACETOPHENONE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	62-53-3	ANILINE	ug/l	5.2	U	5	U	4.6	U	5.2	U	5.4	U
SW8270	120-12-7	ANTHRACENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	1912-24-9	ATRAZINE	ug/l	2.1	U	2	U	1.9	U	2.1	U	2.2	U
SW8270	100-52-7	BENZALDEHYDE	ug/l	2.1	U	2	U	1.9	U	2.1	U	2.2	U
SW8270	56-55-3	BENZO(A)ANTHRACENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	50-32-8	BENZO(A)PYRENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	205-99-2	BENZO(B)FLUORANTHENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	191-24-2	BENZO(G,H,I)PERYLENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	207-08-9	BENZO(K)FLUORANTHENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	85-68-7	BENZYL BUTYL PHTHALATE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	92-52-4	BIPHENYL (DIPHENYL)	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	111-44-4	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	2.1	U	2	U	1.9	U	2.1	U	2.2	U
SW8270	105-60-2	CAPROLACTAM	ug/l	5.2	U	5	U	4.6	U	2.6	J	3.3	J
SW8270	86-74-8	CARBAZOLE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	MEPH1314	CRESOLS, M & P	ug/l	2.1	U	2	U	1.9	U	2.1	U	2.2	U
SW8270	53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	132-64-9	DIBENZOFURAN	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	84-66-2	DIETHYL PHTHALATE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	131-11-3	DIMETHYL PHTHALATE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	84-74-2	DI-N-BUTYL PHTHALATE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	117-84-0	DI-N-OCTYLPHTHALATE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	206-44-0	FLUORANTHENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	86-73-7	FLUORENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	87-68-3	HEXACHLORO-1,3-BUTADIENE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	118-74-1	HEXACHLOROBENZENE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	10	U	10	U	9.3	U	10	U	11	U
SW8270	67-72-1	HEXACHLOROETHANE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	91-20-3	NAPHTHALENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	98-95-3	NITROBENZENE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	86-30-6	N-NITROSODIPHENYLAMINE	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	106-47-8	P-CHLOROANILINE	ug/l	2.1	U	2	U	1.9	U	2.1	U	2.2	U
SW8270	87-86-5	PENTACHLOROPHENOL	ug/l	42	U	40	U	37	U	42	UJ	43	UJ
SW8270	85-01-8	PHENANTHRENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U
SW8270	108-95-2	PHENOL	ug/l	1	U	1	U	0.93	U	1	U	1.1	U
SW8270	100-01-6	P-NITROANILINE	ug/l	2.1	U	2	U	1.9	U	2.1	U	2.2	U
SW8270	129-00-0	PYRENE	ug/l	0.21	U	0.2	U	0.19	U	0.21	U	0.22	U

			sys_loc_code	UAW02-20		UAW02-40		UAW02-40		UAW03-20		UAW04-20	
			sys_sample_code	20161207UAW02-20V15N		20161207UAW02-40V41FD		20161207UAW02-40V41N		20161207UAW03-20V15N		20161207UAW04-20V16N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73120		240-73120		240-73120		240-73120		240-73120	
			lab_sample_id	240-73120-1		240-73120-7		240-73120-6		240-73120-8		240-73120-2	
			sample_date	12/7/2016		12/7/2016		12/7/2016		12/7/2016		12/7/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW6010	7429-90-5	ALUMINUM (FUME OR DUST)	ug/l	200	U	99	J	240	J	2100		120	J
SW6010	7440-36-0	ANTIMONY	ug/l	10	U	10	U	10	U	10	U	16	
SW6010	7440-38-2	ARSENIC	ug/l	10	U	10	U	3.6	J	10	U	7.8	J
SW6010	7440-39-3	BARIUM	ug/l	110	J	180	J	200		49	J	42	J
SW6010	7440-41-7	BERYLLIUM	ug/l	5	U	5	U	5	U	5	U	5	U
SW6010	7440-43-9	CADMIUM	ug/l	2	U	2	U	2	U	2	U	2	U
SW6010	7440-70-2	CALCIUM METAL	ug/l	180000		150000		150000		110000		69000	
SW6010	7440-47-3	CHROMIUM, TOTAL	ug/l	11		18		22		20		170	
SW6010	7440-48-4	COBALT	ug/l	7	U	7	U	7	U	2.2	J	2.3	J
SW6010	7440-50-8	COPPER	ug/l	25	U	6.1	J	11	J	14	J	25	U
SW6010	7439-89-6	IRON	ug/l	3100		9000		13000		4400		2300	
SW6010	7439-92-1	LEAD	ug/l	2.7	J	3.4	J	4.6	J	5.5		5	U
SW6010	7439-95-4	MAGNESIUM	ug/l	36000		33000		33000		18000		13000	
SW6010	7439-96-5	MANGANESE	ug/l	570		1100		1100		450		160	
SW6010	7440-02-0	NICKEL	ug/l	20	J	1.7	J	1.8	J	57		270	
SW6010	7440-09-7	POTASSIUM	ug/l	2200	J	2200	J	2300	J	4300	J	2200	J
SW6010	7782-49-2	SELENIUM	ug/l	15	U	15	U	15	U	15	U	15	U
SW6010	7440-22-4	SILVER	ug/l	5	U	5	U	5	U	5	U	5	U
SW6010	7440-23-5	SODIUM	ug/l	240000		88000		87000		220000		64000	
SW6010	7440-28-0	THALLIUM	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-31-5	TIN	ug/l	85	J	100	U	2.6	J	350		60	J
SW6010	7440-62-2	VANADIUM (FUME OR DUST)	ug/l	10	U	10	U	10	U	6.8	J	10	U
SW6010	7440-66-6	ZINC	ug/l	50	U	16	J	35	J	48	J	50	U
SW7470	7439-97-6	MERCURY	ug/l	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
SW8260	71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-34-3	1,1-DICHLOROETHANE	ug/l	1	U	4.7		4.7		1	U	1	U
SW8260	75-35-4	1,1-DICHLOROETHYLENE	ug/l	1	U	2.6		2.6		1	U	1	U
SW8260	120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ug/l	2	U	2	U	2	U	2	U	2	U
SW8260	106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	95-50-1	1,2-DICHLOROBENZENE	ug/l	13		1	U	1	U	8.1		1.1	U
SW8260	107-06-2	1,2-DICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	78-87-5	1,2-DICHLOROPROPANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	106-46-7	1,4-DICHLOROBENZENE	ug/l	4.2		1	U	1	U	1.8		1	U
SW8260	67-64-1	ACETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	71-43-2	BENZENE	ug/l	1	U	1	U	1	U	0.77	J	1	U
SW8260	75-27-4	BROMODICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	74-83-9	BROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-15-0	CARBON DISULFIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	56-23-5	CARBON TETRACHLORIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-69-4	CFC-11	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-71-8	CFC-12	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	76-13-1	CHLORINATED FLUOROCARBON (FREON 113)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	108-90-7	CHLOROBENZENE	ug/l	2.2		1	U	1	U	14		1.7	
SW8260	124-48-1	CHLORODIBROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U

			sys_loc_code	UAW02-20		UAW02-40		UAW02-40		UAW03-20		UAW04-20	
			sys_sample_code	20161207UAW02-20V15N		20161207UAW02-40V41FD		20161207UAW02-40V41N		20161207UAW03-20V15N		20161207UAW04-20V16N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73120		240-73120		240-73120		240-73120		240-73120	
			lab_sample_id	240-73120-1		240-73120-7		240-73120-6		240-73120-8		240-73120-2	
			sample_date	12/7/2016		12/7/2016		12/7/2016		12/7/2016		12/7/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8260	75-00-3	CHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	67-66-3	CHLOROFORM	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	74-87-3	CHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1	U	20		21		1	U	1	U
SW8260	10061-01-5	cis-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	110-82-7	CYCLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-09-2	DICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-41-4	ETHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	541-73-1	M-DICHLOROBENZENE	ug/l	0.69	J	1	U	1	U	1	U	1	U
SW8260	79-20-9	METHYL ACETATE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-10-1	METHYL ISOBUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	591-78-6	METHYL N-BUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-88-3	METHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	108-87-2	METHYLCYLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-42-5	STYRENE (MONOMER)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1	U	1	U	0.36	J	1	U	1	U
SW8260	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	10061-02-6	trans-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-25-2	TRIBOMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-01-6	TRICHLOROETHYLENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-01-4	VINYL CHLORIDE	ug/l	1	U	5.8		6		1	U	1	U
SW8260	1330-20-7	XYLENES, TOTAL	ug/l	2	U	2	U	2	U	2	U	2	U
SW8270	218-01-9	1,2-BENZPHENANTHRACENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	4.6	U	5.4	U	5.2	U	5.4	U	4.8	U
SW8270	88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	4.6	U	5.4	U	5.2	U	5.4	U	4.8	U
SW8270	120-83-2	2,4-DICHLOROPHENOL	ug/l	1.9	U	2.2	U	2.1	U	2.2	U	1.9	U
SW8270	105-67-9	2,4-DIMETHYLPHENOL	ug/l	1.9	U	2.2	U	2.1	U	2.2	U	1.9	U
SW8270	51-28-5	2,4-DINITROPHENOL	ug/l	37	U	43	U	42	U	43	U	38	U
SW8270	121-14-2	2,4-DINITROTOLUENE	ug/l	4.6	U	5.4	U	5.2	U	5.4	U	4.8	U
SW8270	606-20-2	2,6-DINITROTOLUENE	ug/l	4.6	U	5.4	U	5.2	U	5.4	U	4.8	U
SW8270	91-58-7	2-CHLORONAPHTHALENE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	95-57-8	2-CHLOROPHENOL	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	91-57-6	2-METHYLNAPHTHALENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	95-48-7	2-METHYLPHENOL	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	88-74-4	2-NITROANILINE	ug/l	1.9	U	2.2	U	2.1	U	2.2	U	1.9	U
SW8270	88-75-5	2-NITROPHENOL	ug/l	1.9	U	2.2	U	2.1	U	2.2	U	1.9	U
SW8270	91-94-1	3,3'-DICHLOROBENZIDINE	ug/l	4.6	U	5.4	U	5.2	U	5.4	U	4.8	U
SW8270	78-59-1	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	99-09-2	3-NITROANILINE	ug/l	1.9	UJ	2.2	UJ	2.1	UJ	2.2	UJ	1.9	UJ
SW8270	534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	4.6	U	5.4	U	5.2	U	5.4	U	4.8	U
SW8270	101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	1.9	U	2.2	U	2.1	U	2.2	U	1.9	U
SW8270	59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	1.9	U	2.2	U	2.1	U	2.2	U	1.9	U
SW8270	7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	1.9	U	2.2	U	2.1	U	2.2	U	1.9	U
SW8270	100-02-7	4-NITROPHENOL	ug/l	4.6	U	5.4	U	5.2	U	5.4	U	4.8	U

			sys_loc_code	UAW02-20		UAW02-40		UAW02-40		UAW03-20		UAW04-20	
			sys_sample_code	20161207UAW02-20V15N		20161207UAW02-40V41FD		20161207UAW02-40V41N		20161207UAW03-20V15N		20161207UAW04-20V16N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73120		240-73120		240-73120		240-73120		240-73120	
			lab_sample_id	240-73120-1		240-73120-7		240-73120-6		240-73120-8		240-73120-2	
			sample_date	12/7/2016		12/7/2016		12/7/2016		12/7/2016		12/7/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8270	83-32-9	ACENAPHTHENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	208-96-8	ACENAPHTHYLENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	98-86-2	ACETOPHENONE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	62-53-3	ANILINE	ug/l	4.6	U	5.4	U	5.2	U	5.4	U	4.8	U
SW8270	120-12-7	ANTHRACENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	1912-24-9	ATRAZINE	ug/l	1.9	U	2.2	U	2.1	U	2.2	U	1.9	U
SW8270	100-52-7	BENZALDEHYDE	ug/l	1.9	U	2.2	U	2.1	U	2.2	U	1.9	U
SW8270	56-55-3	BENZO(A)ANTHRACENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	50-32-8	BENZO(A)PYRENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	205-99-2	BENZO(B)FLUORANTHENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	191-24-2	BENZO(G,H,I)PERYLENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	207-08-9	BENZO(K)FLUORANTHENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	85-68-7	BENZYL BUTYL PHTHALATE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	92-52-4	BIPHENYL (DIPHENYL)	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	111-44-4	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	1.9	U	2.2	U	2.1	U	2.2	U	1.9	U
SW8270	105-60-2	CAPROLACTAM	ug/l	4.6	U	2.3	J	1.8	J	4.5	J	1.7	J
SW8270	86-74-8	CARBAZOLE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	MEPH1314	CRESOLS, M & P	ug/l	1.9	U	2.2	U	2.1	U	2.2	U	1.9	U
SW8270	53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	132-64-9	DIBENZOFURAN	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	84-66-2	DIETHYL PHTHALATE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	131-11-3	DIMETHYL PHTHALATE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	84-74-2	DI-N-BUTYL PHTHALATE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	117-84-0	DI-N-OCTYLPHTHALATE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	206-44-0	FLUORANTHENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	86-73-7	FLUORENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	87-68-3	HEXACHLORO-1,3-BUTADIENE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	118-74-1	HEXACHLOROBENZENE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	9.3	U	11	U	10	U	11	U	9.6	U
SW8270	67-72-1	HEXACHLOROETHANE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	91-20-3	NAPHTHALENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	98-95-3	NITROBENZENE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	86-30-6	N-NITROSODIPHENYLAMINE	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	106-47-8	P-CHLOROANILINE	ug/l	1.9	U	2.2	U	2.1	U	2.2	U	1.9	U
SW8270	87-86-5	PENTACHLOROPHENOL	ug/l	37	UJ	43	UJ	42	UJ	43	UJ	38	UJ
SW8270	85-01-8	PHENANTHRENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U
SW8270	108-95-2	PHENOL	ug/l	0.93	U	1.1	U	1	U	1.1	U	0.96	U
SW8270	100-01-6	P-NITROANILINE	ug/l	1.9	U	2.2	U	2.1	U	2.2	U	1.9	U
SW8270	129-00-0	PYRENE	ug/l	0.19	U	0.22	U	0.21	U	0.22	U	0.19	U

			sys_loc_code	UAW05-20		UAW06-20		UAW07-20		UAW08-20		UAW09-20	
			sys_sample_code	20161209UAW05-20V14N		20161209UAW06-20V16N		20161209UAW07-20V15N		20161209UAW08-20V15N		20161205UAW09-20V24N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73181		240-73181		240-73181		240-73181		240-72916	
			lab_sample_id	240-73181-7		240-73181-8		240-73181-5		240-73181-4		240-72916-4	
			sample_date	12/9/2016		12/9/2016		12/9/2016		12/9/2016		12/5/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW6010	7429-90-5	ALUMINUM (FUME OR DUST)	ug/l	130	J	270		57	J	200	U	200	U
SW6010	7440-36-0	ANTIMONY	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-38-2	ARSENIC	ug/l	15		3.6	J	10	U	30		10	U
SW6010	7440-39-3	BARIUM	ug/l	80	J	76	J	40	J	75	J	57	J
SW6010	7440-41-7	BERYLLIUM	ug/l	5	U	5	U	5	U	5	U	0.21	J
SW6010	7440-43-9	CADMIUM	ug/l	2	U	2	U	2	U	0.88	J	0.44	J
SW6010	7440-70-2	CALCIUM METAL	ug/l	220000		180000		270000		1000000		110000	
SW6010	7440-47-3	CHROMIUM, TOTAL	ug/l	4500		3	J	3.1	J	23		56	
SW6010	7440-48-4	COBALT	ug/l	6.3	J	7	U	7	U	1.9	J	7	U
SW6010	7440-50-8	COPPER	ug/l	25	U	25	U	25	U	130	U	25	U
SW6010	7439-89-6	IRON	ug/l	14000		720		100		56	J	170	
SW6010	7439-92-1	LEAD	ug/l	3.7	J	4.1	J	3.8	J	10		5	U
SW6010	7439-95-4	MAGNESIUM	ug/l	71000		32000		34000		120000		30000	
SW6010	7439-96-5	MANGANESE	ug/l	430		950		1100		400		15	U
SW6010	7440-02-0	NICKEL	ug/l	630		5.1	J	2.9	J	12	J	15	J
SW6010	7440-09-7	POTASSIUM	ug/l	6400		4300	J	6300		14000		900	J
SW6010	7782-49-2	SELENIUM	ug/l	15	U	15	U	15	U	15	U	15	U
SW6010	7440-22-4	SILVER	ug/l	5	U	5	U	5	U	5	U	5	U
SW6010	7440-23-5	SODIUM	ug/l	580000		370000		310000		780000		40000	
SW6010	7440-28-0	THALLIUM	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-31-5	TIN	ug/l	2200		400		300		4500		100	U
SW6010	7440-62-2	VANADIUM (FUME OR DUST)	ug/l	24		4.7	J	10	U	10	U	10	U
SW6010	7440-66-6	ZINC	ug/l	50	U	50	U	50	U	50	U	50	U
SW7470	7439-97-6	MERCURY	ug/l	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
SW8260	71-55-6	1,1,1-TRICHLOROETHANE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	79-00-5	1,1,2-TRICHLOROETHANE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	75-34-3	1,1-DICHLOROETHANE	ug/l	2	U	0.47	J	5	U	17	UJ	1	U
SW8260	75-35-4	1,1-DICHLOROETHYLENE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ug/l	4	U	2	U	10	U	33	UJ	2	U
SW8260	106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	95-50-1	1,2-DICHLOROBENZENE	ug/l	410		39		170		490	J	1	U
SW8260	107-06-2	1,2-DICHLOROETHANE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	78-87-5	1,2-DICHLOROPROPANE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	106-46-7	1,4-DICHLOROBENZENE	ug/l	110		8.9		38		55	J	1	U
SW8260	67-64-1	ACETONE	ug/l	16	J	10	U	50	U	170	UJ	10	U
SW8260	71-43-2	BENZENE	ug/l	9.5		0.6	J	1.4	J	120	J	1	U
SW8260	75-27-4	BROMODICHLOROMETHANE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	74-83-9	BROMOMETHANE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	75-15-0	CARBON DISULFIDE	ug/l	3.3		1	U	78		250	J	1	U
SW8260	56-23-5	CARBON TETRACHLORIDE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	75-69-4	CFC-11	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	75-71-8	CFC-12	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	76-13-1	CHLORINATED FLUOROCARBON (FREON 113)	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	108-90-7	CHLOROBENZENE	ug/l	570		84		390		140	J	1	U
SW8260	124-48-1	CHLORODIBROMOMETHANE	ug/l	2	U	1	U	5	U	17	UJ	1	U

			sys_loc_code	UAW05-20		UAW06-20		UAW07-20		UAW08-20		UAW09-20	
			sys_sample_code	20161209UAW05-20V14N		20161209UAW06-20V16N		20161209UAW07-20V15N		20161209UAW08-20V15N		20161205UAW09-20V24N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73181		240-73181		240-73181		240-73181		240-72916	
			lab_sample_id	240-73181-7		240-73181-8		240-73181-5		240-73181-4		240-72916-4	
			sample_date	12/9/2016		12/9/2016		12/9/2016		12/9/2016		12/5/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8260	75-00-3	CHLOROETHANE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	67-66-3	CHLOROFORM	ug/l	2	U	1	U	5	U	17	UJ	7.3	
SW8260	74-87-3	CHLOROMETHANE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	10061-01-5	cis-1,3-DICHLOROPROPENE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	110-82-7	CYCLOHEXANE	ug/l	1.2	J	1	U	5	U	17	UJ	1	U
SW8260	75-09-2	DICHLOROMETHANE	ug/l	2		1	U	6.2		19	J	1	U
SW8260	100-41-4	ETHYLBENZENE	ug/l	11		1	U	5	U	76	J	1	U
SW8260	98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	0.92	J	1	U	1.3	J	17	UJ	1	U
SW8260	541-73-1	M-DICHLOROBENZENE	ug/l	16		1.5		5.3		9	J	1	U
SW8260	79-20-9	METHYL ACETATE	ug/l	20	U	10	U	50	U	170	UJ	10	U
SW8260	78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	20	U	10	U	50	U	170	UJ	10	U
SW8260	108-10-1	METHYL ISOBUTYL KETONE	ug/l	5.9	J	10	U	50	U	24	J	10	U
SW8260	591-78-6	METHYL N-BUTYL KETONE	ug/l	20	U	10	U	50	U	170	UJ	10	U
SW8260	108-88-3	METHYLBENZENE	ug/l	4.9		0.41	J	5	U	51	J	1	U
SW8260	108-87-2	METHYLCYLOHEXANE	ug/l	4		1	U	5	U	45	J	1	U
SW8260	100-42-5	STYRENE (MONOMER)	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	10061-02-6	trans-1,3-DICHLOROPROPENE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	75-25-2	TRIBOMOMETHANE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	79-01-6	TRICHLOROETHYLENE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	75-01-4	VINYL CHLORIDE	ug/l	2	U	1	U	5	U	17	UJ	1	U
SW8260	1330-20-7	XYLENES, TOTAL	ug/l	19		2	U	1.3	J	220	J	2	U
SW8270	218-01-9	1,2-BENZPHENANTHRACENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	5.2	U	5	U	19	U	50	U	5.7	U
SW8270	88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	5.2	U	5	U	19	U	50	U	5.7	U
SW8270	120-83-2	2,4-DICHLOROPHENOL	ug/l	2.1	U	2	U	7.7	U	20	U	2.3	U
SW8270	105-67-9	2,4-DIMETHYLPHENOL	ug/l	2.1	U	2	U	7.7	U	20	U	2.3	U
SW8270	51-28-5	2,4-DINITROPHENOL	ug/l	42	U	40	U	150	U	400	U	45	U
SW8270	121-14-2	2,4-DINITROTOLUENE	ug/l	5.2	U	5	U	19	U	50	U	5.7	U
SW8270	606-20-2	2,6-DINITROTOLUENE	ug/l	5.2	U	5	U	19	U	50	U	5.7	U
SW8270	91-58-7	2-CHLORONAPHTHALENE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	95-57-8	2-CHLOROPHENOL	ug/l	3		1	U	3.8	U	10	U	1.1	U
SW8270	91-57-6	2-METHYLNAPHTHALENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	95-48-7	2-METHYLPHENOL	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	88-74-4	2-NITROANILINE	ug/l	2.1	U	2	U	7.7	U	20	U	2.3	U
SW8270	88-75-5	2-NITROPHENOL	ug/l	2.1	U	2	U	7.7	U	20	U	2.3	U
SW8270	91-94-1	3,3'-DICHLOROBENZIDINE	ug/l	5.2	U	5	U	19	U	50	U	5.7	U
SW8270	78-59-1	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	99-09-2	3-NITROANILINE	ug/l	2.1	U	2	U	7.7	U	20	U	2.3	UJ
SW8270	534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	5.2	U	5	U	19	U	50	U	5.7	U
SW8270	101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	2.1	U	2	U	7.7	U	20	U	2.3	U
SW8270	59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	2.1	U	2	U	7.7	U	20	U	2.3	U
SW8270	7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	2.1	U	2	U	7.7	U	20	U	2.3	U
SW8270	100-02-7	4-NITROPHENOL	ug/l	5.2	U	5	U	19	U	50	U	5.7	U

			sys_loc_code	UAW05-20		UAW06-20		UAW07-20		UAW08-20		UAW09-20	
			sys_sample_code	20161209UAW05-20V14N		20161209UAW06-20V16N		20161209UAW07-20V15N		20161209UAW08-20V15N		20161205UAW09-20V24N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73181		240-73181		240-73181		240-73181		240-72916	
			lab_sample_id	240-73181-7		240-73181-8		240-73181-5		240-73181-4		240-72916-4	
			sample_date	12/9/2016		12/9/2016		12/9/2016		12/9/2016		12/5/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8270	83-32-9	ACENAPHTHENE	ug/l	0.21	U	0.28		0.77	U	2	U	0.23	U
SW8270	208-96-8	ACENAPHTHYLENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	98-86-2	ACETOPHENONE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	62-53-3	ANILINE	ug/l	16		5	U	2.9	J	180		5.7	U
SW8270	120-12-7	ANTHRACENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	1912-24-9	ATRAZINE	ug/l	2.1	U	2	U	7.7	U	20	U	2.3	U
SW8270	100-52-7	BENZALDEHYDE	ug/l	9.2		2	U	7.7	U	20	U	2.3	U
SW8270	56-55-3	BENZO(A)ANTHRACENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	50-32-8	BENZO(A)PYRENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	205-99-2	BENZO(B)FLUORANTHENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	191-24-2	BENZO(G,H,I)PERYLENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	207-08-9	BENZO(K)FLUORANTHENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	85-68-7	BENZYL BUTYL PHTHALATE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	92-52-4	BIPHENYL (DIPHENYL)	ug/l	1	U	1	U	3.8	U	8	J	1.1	U
SW8270	111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	111-44-4	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	2.1	U	2	U	7.7	U	20	U	2.3	U
SW8270	105-60-2	CAPROLACTAM	ug/l	5.2	U	5	U	19	U	50	U	2.7	J
SW8270	86-74-8	CARBAZOLE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	MEPH1314	CRESOLS, M & P	ug/l	2.1	U	2	U	7.7	U	20	U	2.3	U
SW8270	53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	132-64-9	DIBENZOFURAN	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	84-66-2	DIETHYL PHTHALATE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	131-11-3	DIMETHYL PHTHALATE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	84-74-2	DI-N-BUTYL PHTHALATE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	117-84-0	DI-N-OCTYLPHTHALATE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	206-44-0	FLUORANTHENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	86-73-7	FLUORENE	ug/l	0.21	U	0.32		0.77	U	2	U	0.23	U
SW8270	87-68-3	HEXACHLORO-1,3-BUTADIENE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	118-74-1	HEXACHLOROBENZENE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	10	U	10	U	38	U	100	U	11	U
SW8270	67-72-1	HEXACHLOROETHANE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	91-20-3	NAPHTHALENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	98-95-3	NITROBENZENE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	86-30-6	N-NITROSODIPHENYLAMINE	ug/l	1	U	1	U	3.8	U	10	U	1.1	U
SW8270	106-47-8	P-CHLOROANILINE	ug/l	2.1	U	2	U	7.7	U	20	U	2.3	U
SW8270	87-86-5	PENTACHLOROPHENOL	ug/l	42	U	40	U	150	U	400	U	45	UJ
SW8270	85-01-8	PHENANTHRENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U
SW8270	108-95-2	PHENOL	ug/l	2.4		0.57	J	3.8	U	10	U	1.1	U
SW8270	100-01-6	P-NITROANILINE	ug/l	2.1	U	2	U	7.7	U	20	U	2.3	U
SW8270	129-00-0	PYRENE	ug/l	0.21	U	0.2	U	0.77	U	2	U	0.23	U

			sys_loc_code	UAW09-60		UAW10-50		UAW10-80		UAW11-10		UAW11-40	
			sys_sample_code	20161202UAW09-60V54N		20161214UAW10-50V50N		20161215UAW10-80V77N		20161208UAW11-10V12N		20161208UAW11-40V39N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-72811		240-73513		240-73513		240-73120		240-73120	
			lab_sample_id	240-72811-1		240-73513-1		240-73513-4		240-73120-11		240-73120-5	
			sample_date	12/2/2016		12/14/2016		12/15/2016		12/8/2016		12/8/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW6010	7429-90-5	ALUMINUM (FUME OR DUST)	ug/l	200	U	200		200	U	81	J	340	
SW6010	7440-36-0	ANTIMONY	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-38-2	ARSENIC	ug/l	8	J	10	U	15		13		3.4	J
SW6010	7440-39-3	BARIUM	ug/l	190	J	41	J	48	J	140	J	26	J
SW6010	7440-41-7	BERYLLIUM	ug/l	5	U	5	U	5	U	5	U	5	U
SW6010	7440-43-9	CADMIUM	ug/l	2	U	2	U	2	U	2	U	0.36	J
SW6010	7440-70-2	CALCIUM METAL	ug/l	100000		160000		22000		140000		190000	
SW6010	7440-47-3	CHROMIUM, TOTAL	ug/l	1.5	J	0.67	J	5	U	2.7	J	74	
SW6010	7440-48-4	COBALT	ug/l	7	U	7	U	7	U	0.84	J	3.5	J
SW6010	7440-50-8	COPPER	ug/l	25	U	25	U	25	U	25	U	6.2	J
SW6010	7439-89-6	IRON	ug/l	100	U	240		77	J	4300		1100	
SW6010	7439-92-1	LEAD	ug/l	2.5	J	2.4	J	5	U	2.2	J	5.2	
SW6010	7439-95-4	MAGNESIUM	ug/l	36000		50000		1800	J	28000		45000	
SW6010	7439-96-5	MANGANESE	ug/l	93		190		15		2400		1400	
SW6010	7440-02-0	NICKEL	ug/l	1.8	J	3.7	J	40	U	9.1	J	36	J
SW6010	7440-09-7	POTASSIUM	ug/l	1100	J	1800	J	900	J	4200	J	4000	J
SW6010	7782-49-2	SELENIUM	ug/l	15	U	15	U	15	U	15	U	15	U
SW6010	7440-22-4	SILVER	ug/l	5	U	5	U	5	U	5	U	5	U
SW6010	7440-23-5	SODIUM	ug/l	14000		35000		5000	U	460000		220000	
SW6010	7440-28-0	THALLIUM	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-31-5	TIN	ug/l	100	U	100	U	100	U	520		60	J
SW6010	7440-62-2	VANADIUM (FUME OR DUST)	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-66-6	ZINC	ug/l	50	U	50	U	50	U	50	U	18	J
SW7470	7439-97-6	MERCURY	ug/l	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
SW8260	71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1	U	1		1	U	1	U	2.2	
SW8260	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-34-3	1,1-DICHLOROETHANE	ug/l	1	U	1.8		1	U	5.3		1.9	
SW8260	75-35-4	1,1-DICHLOROETHYLENE	ug/l	1	U	1	U	1	U	0.31	J	1	U
SW8260	120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ug/l	2	U	2	U	2	U	2	U	2	U
SW8260	106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	95-50-1	1,2-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	6.5		1	U
SW8260	107-06-2	1,2-DICHLOROETHANE	ug/l	1	U	0.38	J	1		1	U	2.4	
SW8260	78-87-5	1,2-DICHLOROPROPANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	106-46-7	1,4-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	2.5		1	U
SW8260	67-64-1	ACETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	71-43-2	BENZENE	ug/l	1	U	1	U	1	U	0.45	J	1	U
SW8260	75-27-4	BROMODICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	74-83-9	BROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-15-0	CARBON DISULFIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	56-23-5	CARBON TETRACHLORIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-69-4	CFC-11	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-71-8	CFC-12	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	76-13-1	CHLORINATED FLUOROCARBON (FREON 113)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	108-90-7	CHLOROBENZENE	ug/l	1	U	1	U	1	U	3.7		3.8	
SW8260	124-48-1	CHLORODIBROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U

			sys_loc_code	UAW09-60		UAW10-50		UAW10-80		UAW11-10		UAW11-40	
			sys_sample_code	20161202UAW09-60V54N		20161214UAW10-50V50N		20161215UAW10-80V77N		20161208UAW11-10V12N		20161208UAW11-40V39N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-72811		240-73513		240-73513		240-73120		240-73120	
			lab_sample_id	240-72811-1		240-73513-1		240-73513-4		240-73120-11		240-73120-5	
			sample_date	12/2/2016		12/14/2016		12/15/2016		12/8/2016		12/8/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8260	75-00-3	CHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	67-66-3	CHLOROFORM	ug/l	1	U	4.4		1	U	1	U	0.39	J
SW8260	74-87-3	CHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1	U	3.6		1	U	14		2	
SW8260	10061-01-5	cis-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	110-82-7	CYCLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-09-2	DICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-41-4	ETHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	541-73-1	M-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	0.39	J	1	U
SW8260	79-20-9	METHYL ACETATE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-10-1	METHYL ISOBUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	591-78-6	METHYL N-BUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-88-3	METHYLBENZENE	ug/l	1	U	1	U	1	U	0.58	J	1	U
SW8260	108-87-2	METHYLCYLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-42-5	STYRENE (MONOMER)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1	U	5		1	U	1	U	11	
SW8260	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1	U	0.29	J	1	U	0.47	J	1	U
SW8260	10061-02-6	trans-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-25-2	TRIBOMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-01-6	TRICHLOROETHYLENE	ug/l	1	U	1.2		1	U	1	U	1.9	
SW8260	75-01-4	VINYL CHLORIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	1330-20-7	XYLENES, TOTAL	ug/l	2	U	2	U	2	U	2	U	2	U
SW8270	218-01-9	1,2-BENZPHENANTHRACENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	4.8	U	5	U	5.2	U	6.3	U	4.8	U
SW8270	88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	4.8	U	5	U	5.2	U	6.3	U	4.8	U
SW8270	120-83-2	2,4-DICHLOROPHENOL	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	105-67-9	2,4-DIMETHYLPHENOL	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	51-28-5	2,4-DINITROPHENOL	ug/l	38	U	40	U	42	U	50	U	38	U
SW8270	121-14-2	2,4-DINITROTOLUENE	ug/l	4.8	U	5	U	5.2	U	6.3	U	4.8	U
SW8270	606-20-2	2,6-DINITROTOLUENE	ug/l	4.8	U	5	U	5.2	U	6.3	U	4.8	U
SW8270	91-58-7	2-CHLORONAPHTHALENE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	95-57-8	2-CHLOROPHENOL	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	91-57-6	2-METHYLNAPHTHALENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	95-48-7	2-METHYLPHENOL	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	88-74-4	2-NITROANILINE	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	88-75-5	2-NITROPHENOL	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	91-94-1	3,3'-DICHLOROBENZIDINE	ug/l	4.8	U	5	U	5.2	U	6.3	U	4.8	U
SW8270	78-59-1	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	99-09-2	3-NITROANILINE	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	4.8	U	5	U	5.2	U	6.3	U	4.8	U
SW8270	101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	100-02-7	4-NITROPHENOL	ug/l	4.8	U	5	U	5.2	U	6.3	U	4.8	U

			sys_loc_code	UAW09-60		UAW10-50		UAW10-80		UAW11-10		UAW11-40	
			sys_sample_code	20161202UAW09-60V54N		20161214UAW10-50V50N		20161215UAW10-80V77N		20161208UAW11-10V12N		20161208UAW11-40V39N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-72811		240-73513		240-73513		240-73120		240-73120	
			lab_sample_id	240-72811-1		240-73513-1		240-73513-4		240-73120-11		240-73120-5	
			sample_date	12/2/2016		12/14/2016		12/15/2016		12/8/2016		12/8/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8270	83-32-9	ACENAPHTHENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	208-96-8	ACENAPHTHYLENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	98-86-2	ACETOPHENONE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	62-53-3	ANILINE	ug/l	4.8	U	5	U	5.2	U	6.3	U	4.8	U
SW8270	120-12-7	ANTHRACENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	1912-24-9	ATRAZINE	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	100-52-7	BENZALDEHYDE	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	56-55-3	BENZO(A)ANTHRACENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	50-32-8	BENZO(A)PYRENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	205-99-2	BENZO(B)FLUORANTHENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	191-24-2	BENZO(G,H,I)PERYLENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	207-08-9	BENZO(K)FLUORANTHENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	85-68-7	BENZYL BUTYL PHTHALATE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	92-52-4	BIPHENYL (DIPHENYL)	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	111-44-4	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	105-60-2	CAPROLACTAM	ug/l	2.2	J	5	U	5.2	U	6.9		4.8	U
SW8270	86-74-8	CARBAZOLE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	MEPH1314	CRESOLS, M & P	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	132-64-9	DIBENZOFURAN	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	84-66-2	DIETHYL PHTHALATE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	131-11-3	DIMETHYL PHTHALATE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	84-74-2	DI-N-BUTYL PHTHALATE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	117-84-0	DI-N-OCTYLPHTHALATE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	206-44-0	FLUORANTHENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	86-73-7	FLUORENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	87-68-3	HEXACHLORO-1,3-BUTADIENE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	118-74-1	HEXACHLOROBENZENE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	9.6	U	10	U	10	U	13	U	9.6	U
SW8270	67-72-1	HEXACHLOROETHANE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	91-20-3	NAPHTHALENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	98-95-3	NITROBENZENE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	86-30-6	N-NITROSODIPHENYLAMINE	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	106-47-8	P-CHLOROANILINE	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	87-86-5	PENTACHLOROPHENOL	ug/l	38	U	40	U	42	U	50	U	38	U
SW8270	85-01-8	PHENANTHRENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U
SW8270	108-95-2	PHENOL	ug/l	0.96	U	1	U	1	U	1.3	U	0.96	U
SW8270	100-01-6	P-NITROANILINE	ug/l	1.9	U	2	U	2.1	U	2.5	U	1.9	U
SW8270	129-00-0	PYRENE	ug/l	0.19	U	0.2	U	0.21	U	0.25	U	0.19	U

			sys_loc_code	UAW12-20		UAW13-20		UAW14-10		UAW15-20		UAW15-50	
			sys_sample_code	20161209UAW12-20V14N		20161209UAW13-20V14N		20161214UAW14-10V12N		20161208UAW15-20V19N		20161208UAW15-50V42N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73181		240-73181		240-73378		240-73120		240-73120	
			lab_sample_id	240-73181-6		240-73181-3		240-73378-9		240-73120-10		240-73120-4	
			sample_date	12/9/2016		12/9/2016		12/14/2016		12/8/2016		12/8/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW6010	7429-90-5	ALUMINUM (FUME OR DUST)	ug/l	200	U	140	J	200	U	200	U	770	
SW6010	7440-36-0	ANTIMONY	ug/l	10	U	10	U	10	U	10	U	4.2	J
SW6010	7440-38-2	ARSENIC	ug/l	6.3	J	15		6.8	J	10	U	12	
SW6010	7440-39-3	BARIUM	ug/l	44	J	5.2	J	80	J	73	J	40	J
SW6010	7440-41-7	BERYLLIUM	ug/l	5	U	5	U	5	U	5	U	5	U
SW6010	7440-43-9	CADMIUM	ug/l	2	U	0.35	J	2	U	2	U	0.93	J
SW6010	7440-70-2	CALCIUM METAL	ug/l	590000		750000		97000		84000		54000	
SW6010	7440-47-3	CHROMIUM, TOTAL	ug/l	19		570		6.7		130		12	
SW6010	7440-48-4	COBALT	ug/l	7	U	7	U	7	U	3.2	J	0.87	J
SW6010	7440-50-8	COPPER	ug/l	25	U	5.3	J	25	U	3.9	J	45	
SW6010	7439-89-6	IRON	ug/l	240		1800		4000		1100		2400	
SW6010	7439-92-1	LEAD	ug/l	7.1		11		5	U	2	J	9.1	
SW6010	7439-95-4	MAGNESIUM	ug/l	38000		56000		28000		21000		4900	J
SW6010	7439-96-5	MANGANESE	ug/l	2900		2700		35		17		120	
SW6010	7440-02-0	NICKEL	ug/l	7.7	J	27	J	3.5	J	58		6.3	J
SW6010	7440-09-7	POTASSIUM	ug/l	7400		4800	J	850	J	1900	J	1800	J
SW6010	7782-49-2	SELENIUM	ug/l	15	U	15	U	15	U	15	U	15	U
SW6010	7440-22-4	SILVER	ug/l	5	U	5	U	5	U	5	U	5	U
SW6010	7440-23-5	SODIUM	ug/l	320000		460000		26000		340000		13000	
SW6010	7440-28-0	THALLIUM	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-31-5	TIN	ug/l	450		1300		100	U	59	J	290	
SW6010	7440-62-2	VANADIUM (FUME OR DUST)	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-66-6	ZINC	ug/l	50	U	18	J	50	U	50	U	190	
SW7470	7439-97-6	MERCURY	ug/l	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
SW8260	71-55-6	1,1,1-TRICHLOROETHANE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	79-00-5	1,1,2-TRICHLOROETHANE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	75-34-3	1,1-DICHLOROETHANE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	75-35-4	1,1-DICHLOROETHYLENE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ug/l	29	U	20	U	2	U	2	U	2	U
SW8260	106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	95-50-1	1,2-DICHLOROBENZENE	ug/l	400		320		1	U	1	U	1	U
SW8260	107-06-2	1,2-DICHLOROETHANE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	78-87-5	1,2-DICHLOROPROPANE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	106-46-7	1,4-DICHLOROBENZENE	ug/l	110		36		1	U	1	U	1	U
SW8260	67-64-1	ACETONE	ug/l	140	U	100	U	10	U	10	U	9	J
SW8260	71-43-2	BENZENE	ug/l	14	U	7.8	J	1	U	1	U	1	U
SW8260	75-27-4	BROMODICHLOROMETHANE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	74-83-9	BROMOMETHANE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	75-15-0	CARBON DISULFIDE	ug/l	150		32		1	U	1	U	0.44	J
SW8260	56-23-5	CARBON TETRACHLORIDE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	75-69-4	CFC-11	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	75-71-8	CFC-12	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	76-13-1	CHLORINATED FLUOROCARBON (FREON 113)	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	108-90-7	CHLOROBENZENE	ug/l	340		64		1	U	1	U	2.2	
SW8260	124-48-1	CHLORODIBROMOMETHANE	ug/l	14	U	10	U	1	U	1	U	1	U

			sys_loc_code	UAW12-20		UAW13-20		UAW14-10		UAW15-20		UAW15-50	
			sys_sample_code	20161209UAW12-20V14N		20161209UAW13-20V14N		20161214UAW14-10V12N		20161208UAW15-20V19N		20161208UAW15-50V42N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73181		240-73181		240-73378		240-73120		240-73120	
			lab_sample_id	240-73181-6		240-73181-3		240-73378-9		240-73120-10		240-73120-4	
			sample_date	12/9/2016		12/9/2016		12/14/2016		12/8/2016		12/8/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8260	75-00-3	CHLOROETHANE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	67-66-3	CHLOROFORM	ug/l	14	U	10	U	1	U	3.4		1	U
SW8260	74-87-3	CHLOROMETHANE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	10061-01-5	cis-1,3-DICHLOROPROPENE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	110-82-7	CYCLOHEXANE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	75-09-2	DICHLOROMETHANE	ug/l	19		16		1	U	1	U	1	U
SW8260	100-41-4	ETHYLBENZENE	ug/l	14	U	19		1	U	1	U	1	U
SW8260	98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	541-73-1	M-DICHLOROBENZENE	ug/l	37		10	U	1	U	1	U	1	U
SW8260	79-20-9	METHYL ACETATE	ug/l	140	U	100	U	10	U	10	U	10	U
SW8260	78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	140	U	100	U	10	U	10	U	1.6	J
SW8260	108-10-1	METHYL ISOBUTYL KETONE	ug/l	140	U	100	U	10	U	10	U	10	U
SW8260	591-78-6	METHYL N-BUTYL KETONE	ug/l	140	U	100	U	10	U	10	U	10	U
SW8260	108-88-3	METHYLBENZENE	ug/l	14	U	9.3	J	1	U	1	U	1	U
SW8260	108-87-2	METHYLCYLOHEXANE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	100-42-5	STYRENE (MONOMER)	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	10061-02-6	trans-1,3-DICHLOROPROPENE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	75-25-2	TRIBOMOMETHANE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	79-01-6	TRICHLOROETHYLENE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	75-01-4	VINYL CHLORIDE	ug/l	14	U	10	U	1	U	1	U	1	U
SW8260	1330-20-7	XYLENES, TOTAL	ug/l	29	U	28		2	U	2	U	2	U
SW8270	218-01-9	1,2-BENZPHENANTHRACENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	5.4	U	20	U	5.2	U	5.2	U	5	U
SW8270	88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	5.4	U	20	U	5.2	U	5.2	U	5	U
SW8270	120-83-2	2,4-DICHLOROPHENOL	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	105-67-9	2,4-DIMETHYLPHENOL	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	51-28-5	2,4-DINITROPHENOL	ug/l	43	U	160	U	42	U	42	U	40	U
SW8270	121-14-2	2,4-DINITROTOLUENE	ug/l	5.4	U	20	U	5.2	U	5.2	U	5	U
SW8270	606-20-2	2,6-DINITROTOLUENE	ug/l	5.4	U	20	U	5.2	U	5.2	U	5	U
SW8270	91-58-7	2-CHLORONAPHTHALENE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	95-57-8	2-CHLOROPHENOL	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	91-57-6	2-METHYLNAPHTHALENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	95-48-7	2-METHYLPHENOL	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	88-74-4	2-NITROANILINE	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	88-75-5	2-NITROPHENOL	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	91-94-1	3,3'-DICHLOROBENZIDINE	ug/l	5.4	U	20	U	5.2	U	5.2	U	5	U
SW8270	78-59-1	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	99-09-2	3-NITROANILINE	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	5.4	U	20	U	5.2	U	5.2	U	5	U
SW8270	101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	100-02-7	4-NITROPHENOL	ug/l	5.4	U	20	U	5.2	U	5.2	U	5	U

			sys_loc_code	UAW12-20		UAW13-20		UAW14-10		UAW15-20		UAW15-50	
			sys_sample_code	20161209UAW12-20V14N		20161209UAW13-20V14N		20161214UAW14-10V12N		20161208UAW15-20V19N		20161208UAW15-50V42N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73181		240-73181		240-73378		240-73120		240-73120	
			lab_sample_id	240-73181-6		240-73181-3		240-73378-9		240-73120-10		240-73120-4	
			sample_date	12/9/2016		12/9/2016		12/14/2016		12/8/2016		12/8/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8270	83-32-9	ACENAPHTHENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	208-96-8	ACENAPHTHYLENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	98-86-2	ACETOPHENONE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	62-53-3	ANILINE	ug/l	1.5	J	9.8	J	5.2	U	5.2	U	5	U
SW8270	120-12-7	ANTHRACENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	1912-24-9	ATRAZINE	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	100-52-7	BENZALDEHYDE	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	56-55-3	BENZO(A)ANTHRACENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	50-32-8	BENZO(A)PYRENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	205-99-2	BENZO(B)FLUORANTHENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	191-24-2	BENZO(G,H,I)PERYLENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	207-08-9	BENZO(K)FLUORANTHENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	85-68-7	BENZYL BUTYL PHTHALATE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	92-52-4	BIPHENYL (DIPHENYL)	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	111-44-4	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	105-60-2	CAPROLACTAM	ug/l	4.8	J	20	U	5.2	U	5	J	4.2	J
SW8270	86-74-8	CARBAZOLE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	MEPH1314	CRESOLS, M & P	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	132-64-9	DIBENZOFURAN	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	84-66-2	DIETHYL PHTHALATE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	131-11-3	DIMETHYL PHTHALATE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	84-74-2	DI-N-BUTYL PHTHALATE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	117-84-0	DI-N-OCTYLPHTHALATE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	206-44-0	FLUORANTHENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.26	
SW8270	86-73-7	FLUORENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	87-68-3	HEXACHLORO-1,3-BUTADIENE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	118-74-1	HEXACHLOROBENZENE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	11	U	40	U	10	U	10	U	10	U
SW8270	67-72-1	HEXACHLOROETHANE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	91-20-3	NAPHTHALENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	98-95-3	NITROBENZENE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	86-30-6	N-NITROSODIPHENYLAMINE	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	106-47-8	P-CHLOROANILINE	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	87-86-5	PENTACHLOROPHENOL	ug/l	43	U	160	U	42	U	42	U	8.6	J
SW8270	85-01-8	PHENANTHRENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.2	U
SW8270	108-95-2	PHENOL	ug/l	1.1	U	4	U	1	U	1	U	1	U
SW8270	100-01-6	P-NITROANILINE	ug/l	2.2	U	8	U	2.1	U	2.1	U	2	U
SW8270	129-00-0	PYRENE	ug/l	0.22	U	0.8	U	0.21	U	0.21	U	0.23	

			sys_loc_code	UAW16-10		UAW16-10		UAW17-40		UAW18-20		UAW19-80	
			sys_sample_code	20161208UAW16-10V13FD		20161208UAW16-10V13N		20161214UAW17-40V36N		20161214UAW18-20V15N		20161215UAW19-80V74N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73181		240-73181		240-73378		240-73513		240-73513	
			lab_sample_id	240-73181-2		240-73181-1		240-73378-4		240-73513-6		240-73513-8	
			sample_date	12/8/2016		12/8/2016		12/14/2016		12/14/2016		12/15/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW6010	7429-90-5	ALUMINUM (FUME OR DUST)	ug/l	85	J	100	J	200	U	2000		200	U
SW6010	7440-36-0	ANTIMONY	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-38-2	ARSENIC	ug/l	10	U	4.2	J	32		10	U	10	U
SW6010	7440-39-3	BARIUM	ug/l	44	J	45	J	230		38	J	64	J
SW6010	7440-41-7	BERYLLIUM	ug/l	5	U	5	U	5	U	5	U	0.26	J
SW6010	7440-43-9	CADMIUM	ug/l	2	U	2	U	2	U	2	U	2	U
SW6010	7440-70-2	CALCIUM METAL	ug/l	170000		180000		93000		39000		160000	
SW6010	7440-47-3	CHROMIUM, TOTAL	ug/l	2.7	J	3.2	J	5	U	6.9		0.68	J
SW6010	7440-48-4	COBALT	ug/l	0.94	J	0.94	J	7	U	7	U	7	U
SW6010	7440-50-8	COPPER	ug/l	3.9	J	25	U	25	U	16	J	25	U
SW6010	7439-89-6	IRON	ug/l	1300		1400		6700		2100		100	U
SW6010	7439-92-1	LEAD	ug/l	2.9	J	3.5	J	5	U	9.2		5	U
SW6010	7439-95-4	MAGNESIUM	ug/l	31000		33000		28000		3400	J	48000	
SW6010	7439-96-5	MANGANESE	ug/l	910		980		150		79		17	
SW6010	7440-02-0	NICKEL	ug/l	8.2	J	9.7	J	40	U	7.2	J	40	U
SW6010	7440-09-7	POTASSIUM	ug/l	6500		6800		640	J	1800	J	1700	J
SW6010	7782-49-2	SELENIUM	ug/l	15	U	15	U	15	U	15	U	15	U
SW6010	7440-22-4	SILVER	ug/l	5	U	5	U	5	U	5	U	5	U
SW6010	7440-23-5	SODIUM	ug/l	270000		300000		7900		34000		66000	
SW6010	7440-28-0	THALLIUM	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-31-5	TIN	ug/l	860		1100		100	U	99	J	100	U
SW6010	7440-62-2	VANADIUM (FUME OR DUST)	ug/l	10	U	10	U	10	U	10		10	U
SW6010	7440-66-6	ZINC	ug/l	19	J	22	J	50	U	79		50	U
SW7470	7439-97-6	MERCURY	ug/l	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
SW8260	71-55-6	1,1,1-TRICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	4.6	
SW8260	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	0.43	J
SW8260	75-34-3	1,1-DICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	6.7	
SW8260	75-35-4	1,1-DICHLOROETHYLENE	ug/l	1	U	1	U	1	U	1	U	0.65	J
SW8260	120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ug/l	2	U	2	U	2	U	2	U	2	U
SW8260	106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	95-50-1	1,2-DICHLOROBENZENE	ug/l	6.6		6.9		1	U	1	U	1	U
SW8260	107-06-2	1,2-DICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	14	
SW8260	78-87-5	1,2-DICHLOROPROPANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	106-46-7	1,4-DICHLOROBENZENE	ug/l	3.2		3.3		1	U	1	U	1	U
SW8260	67-64-1	ACETONE	ug/l	29		35		10	U	5.1	J	10	U
SW8260	71-43-2	BENZENE	ug/l	0.28	J	0.29	J	1	U	1	U	1	U
SW8260	75-27-4	BROMODICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	74-83-9	BROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-15-0	CARBON DISULFIDE	ug/l	0.42	J	1	U	1	U	1	U	1	U
SW8260	56-23-5	CARBON TETRACHLORIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-69-4	CFC-11	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-71-8	CFC-12	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	76-13-1	CHLORINATED FLUOROCARBON (FREON 113)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	108-90-7	CHLOROBENZENE	ug/l	3.1		3.2		1	U	1	U	1	U
SW8260	124-48-1	CHLORODIBROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U

			sys_loc_code	UAW16-10		UAW16-10		UAW17-40		UAW18-20		UAW19-80	
			sys_sample_code	20161208UAW16-10V13FD		20161208UAW16-10V13N		20161214UAW17-40V36N		20161214UAW18-20V15N		20161215UAW19-80V74N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73181		240-73181		240-73378		240-73513		240-73513	
			lab_sample_id	240-73181-2		240-73181-1		240-73378-4		240-73513-6		240-73513-8	
			sample_date	12/8/2016		12/8/2016		12/14/2016		12/14/2016		12/15/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8260	75-00-3	CHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	67-66-3	CHLOROFORM	ug/l	1	U	1	U	1	U	1	U	0.53	J
SW8260	74-87-3	CHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	1	U	1	U	1	U	1	U	13	
SW8260	10061-01-5	cis-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	110-82-7	CYCLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-09-2	DICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-41-4	ETHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	541-73-1	M-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-20-9	METHYL ACETATE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-10-1	METHYL ISOBUTYL KETONE	ug/l	10	U	10	U	10	U	1.3	J	10	U
SW8260	591-78-6	METHYL N-BUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-88-3	METHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	108-87-2	METHYLCYLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-42-5	STYRENE (MONOMER)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	1	U	1	U	1	U	1	U	0.69	J
SW8260	10061-02-6	trans-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-25-2	TRIBOMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-01-6	TRICHLOROETHYLENE	ug/l	1	U	1	U	1	U	1	U	0.71	J
SW8260	75-01-4	VINYL CHLORIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	1330-20-7	XYLENES, TOTAL	ug/l	2	U	2	U	2	U	2	U	2	U
SW8270	218-01-9	1,2-BENZPHENANTHRACENE	ug/l	0.19	U	0.2	U	0.21	U	0.37		0.21	U
SW8270	95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	4.8	U	5	U	5.2	U	4.8	U	5.2	U
SW8270	88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	4.8	U	5	U	5.2	U	4.8	U	5.2	U
SW8270	120-83-2	2,4-DICHLOROPHENOL	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	105-67-9	2,4-DIMETHYLPHENOL	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	51-28-5	2,4-DINITROPHENOL	ug/l	38	U	40	U	42	U	38	U	42	U
SW8270	121-14-2	2,4-DINITROTOLUENE	ug/l	4.8	U	5	U	5.2	U	4.8	U	5.2	U
SW8270	606-20-2	2,6-DINITROTOLUENE	ug/l	4.8	U	5	U	5.2	U	4.8	U	5.2	U
SW8270	91-58-7	2-CHLORONAPHTHALENE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	95-57-8	2-CHLOROPHENOL	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	91-57-6	2-METHYLNAPHTHALENE	ug/l	0.19	U	0.2	U	0.21	U	0.19	U	0.21	U
SW8270	95-48-7	2-METHYLPHENOL	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	88-74-4	2-NITROANILINE	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	88-75-5	2-NITROPHENOL	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	91-94-1	3,3'-DICHLOROBENZIDINE	ug/l	4.8	U	5	U	5.2	U	4.8	U	5.2	U
SW8270	78-59-1	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	99-09-2	3-NITROANILINE	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	4.8	U	5	U	5.2	U	4.8	U	5.2	U
SW8270	101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	100-02-7	4-NITROPHENOL	ug/l	4.8	U	5	U	5.2	U	4.8	U	5.2	U

			sys_loc_code	UAW16-10		UAW16-10		UAW17-40		UAW18-20		UAW19-80	
			sys_sample_code	20161208UAW16-10V13FD		20161208UAW16-10V13N		20161214UAW17-40V36N		20161214UAW18-20V15N		20161215UAW19-80V74N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73181		240-73181		240-73378		240-73513		240-73513	
			lab_sample_id	240-73181-2		240-73181-1		240-73378-4		240-73513-6		240-73513-8	
			sample_date	12/8/2016		12/8/2016		12/14/2016		12/14/2016		12/15/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8270	83-32-9	ACENAPHTHENE	ug/l	0.19	U	0.2	U	0.21	U	0.19	U	0.21	U
SW8270	208-96-8	ACENAPHTHYLENE	ug/l	0.19	U	0.2	U	0.21	U	0.19	U	0.21	U
SW8270	98-86-2	ACETOPHENONE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	62-53-3	ANILINE	ug/l	0.81	J	5	U	5.2	U	4.8	U	5.2	U
SW8270	120-12-7	ANTHRACENE	ug/l	0.19	U	0.2	U	0.21	U	0.19	U	0.21	U
SW8270	1912-24-9	ATRAZINE	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	100-52-7	BENZALDEHYDE	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	56-55-3	BENZO(A)ANTHRACENE	ug/l	0.19	U	0.2	U	0.21	U	0.19	U	0.21	U
SW8270	50-32-8	BENZO(A)PYRENE	ug/l	0.19	U	0.2	U	0.21	U	0.19	U	0.21	U
SW8270	205-99-2	BENZO(B)FLUORANTHENE	ug/l	0.19	U	0.2	U	0.21	U	0.45		0.21	U
SW8270	191-24-2	BENZO(G,H,I)PERYLENE	ug/l	0.19	U	0.2	U	0.21	U	0.19	U	0.21	U
SW8270	207-08-9	BENZO(K)FLUORANTHENE	ug/l	0.19	U	0.2	U	0.21	U	0.2		0.21	U
SW8270	85-68-7	BENZYL BUTYL PHTHALATE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	92-52-4	BIPHENYL (DIPHENYL)	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	111-44-4	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	105-60-2	CAPROLACTAM	ug/l	4.8	U	5	U	5.2	U	4.8	U	5.2	U
SW8270	86-74-8	CARBAZOLE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	MEPH1314	CRESOLS, M & P	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	0.19	U	0.2	U	0.21	U	0.19	U	0.21	U
SW8270	132-64-9	DIBENZOFURAN	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	84-66-2	DIETHYL PHTHALATE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	131-11-3	DIMETHYL PHTHALATE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	84-74-2	DI-N-BUTYL PHTHALATE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	117-84-0	DI-N-OCTYLPHTHALATE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	206-44-0	FLUORANTHENE	ug/l	0.19	U	0.2	U	0.21	U	0.59		0.21	U
SW8270	86-73-7	FLUORENE	ug/l	0.19	U	0.2	U	0.21	U	0.19	U	0.21	U
SW8270	87-68-3	HEXACHLORO-1,3-BUTADIENE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	118-74-1	HEXACHLOROBENZENE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	9.6	U	10	U	10	U	9.6	U	10	U
SW8270	67-72-1	HEXACHLOROETHANE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	0.19	U	0.2	U	0.21	U	0.19	U	0.21	U
SW8270	91-20-3	NAPHTHALENE	ug/l	0.19	U	0.2	U	0.21	U	0.19	U	0.21	U
SW8270	98-95-3	NITROBENZENE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	86-30-6	N-NITROSODIPHENYLAMINE	ug/l	0.96	U	1	U	1	U	0.96	U	1	U
SW8270	106-47-8	P-CHLOROANILINE	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	87-86-5	PENTACHLOROPHENOL	ug/l	38	U	40	U	42	U	38	U	42	U
SW8270	85-01-8	PHENANTHRENE	ug/l	0.19	U	0.2	U	0.21	U	0.24		0.21	U
SW8270	108-95-2	PHENOL	ug/l	1.6		2.5		1	U	0.96	U	1	U
SW8270	100-01-6	P-NITROANILINE	ug/l	1.9	U	2	U	2.1	U	1.9	U	2.1	U
SW8270	129-00-0	PYRENE	ug/l	0.19	U	0.2	U	0.21	U	0.49		0.21	U

			sys_loc_code	UAW20-60		UAW20-60		UAW21-30		UAW21-80		UAW22-20	
			sys_sample_code	20161214UAW20-60V56FD		20161214UAW20-60V56N		20161213UAW21-30V27N		20161213UAW21-80V72N		20161214UAW22-20V16N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73378		240-73378		240-73378		240-73378		240-73513	
			lab_sample_id	240-73378-6		240-73378-5		240-73378-1		240-73378-8		240-73513-2	
			sample_date	12/14/2016		12/14/2016		12/13/2016		12/13/2016		12/14/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW6010	7429-90-5	ALUMINUM (FUME OR DUST)	ug/l	200	U	200	U	200	U	160	J	2800	
SW6010	7440-36-0	ANTIMONY	ug/l	10	U	10	U	10	U	10	U	5	J
SW6010	7440-38-2	ARSENIC	ug/l	10	U	10	U	10	U	85		9.8	J
SW6010	7440-39-3	BARIUM	ug/l	17	J	17	J	71	J	200		220	
SW6010	7440-41-7	BERYLLIUM	ug/l	0.25	J	5	U	5	U	5	U	0.37	J
SW6010	7440-43-9	CADMIUM	ug/l	0.57	J	0.49	J	2	U	2	U	6.8	
SW6010	7440-70-2	CALCIUM METAL	ug/l	220000		220000		100000		120000		300000	
SW6010	7440-47-3	CHROMIUM, TOTAL	ug/l	5	U	5	U	300		5	U	11	
SW6010	7440-48-4	COBALT	ug/l	7	U	7	U	6.2	J	7	U	2.1	J
SW6010	7440-50-8	COPPER	ug/l	25	U	25	U	25	U	25	U	29	
SW6010	7439-89-6	IRON	ug/l	100	U	100	U	3200		3700		17000	
SW6010	7439-92-1	LEAD	ug/l	5	U	5	U	5	U	5	U	13	
SW6010	7439-95-4	MAGNESIUM	ug/l	73000		74000		27000		40000		61000	
SW6010	7439-96-5	MANGANESE	ug/l	61		61		63		660		4700	
SW6010	7440-02-0	NICKEL	ug/l	1.8	J	1.8	J	220		4.7	J	16	J
SW6010	7440-09-7	POTASSIUM	ug/l	2000	J	2000	J	2700	J	1200	J	12000	
SW6010	7782-49-2	SELENIUM	ug/l	15	U	15	U	15	U	15	U	15	U
SW6010	7440-22-4	SILVER	ug/l	5	U	5	U	5	U	5	U	5	U
SW6010	7440-23-5	SODIUM	ug/l	62000		63000		39000		44000		1600000	
SW6010	7440-28-0	THALLIUM	ug/l	10	U	2.6	J	2.1	J	10	U	10	U
SW6010	7440-31-5	TIN	ug/l	100	U	100	U	100	U	100	U	320	
SW6010	7440-62-2	VANADIUM (FUME OR DUST)	ug/l	10	U	10	U	10	U	10	U	6.3	J
SW6010	7440-66-6	ZINC	ug/l	50	U	50	U	50	U	50	U	490	
SW7470	7439-97-6	MERCURY	ug/l	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
SW8260	71-55-6	1,1,1-TRICHLOROETHANE	ug/l	7.7		7.2		1	U	1	U	1	U
SW8260	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-00-5	1,1,2-TRICHLOROETHANE	ug/l	1.8		1.7		1	U	1	U	1	U
SW8260	75-34-3	1,1-DICHLOROETHANE	ug/l	4.7		4.4		1	U	1	U	1.5	
SW8260	75-35-4	1,1-DICHLOROETHYLENE	ug/l	2.1		1.7		1	U	1	U	0.47	J
SW8260	120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ug/l	2	U	2	U	2	U	2	U	2	U
SW8260	106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	95-50-1	1,2-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	27	
SW8260	107-06-2	1,2-DICHLOROETHANE	ug/l	5.2		5		1	U	1	U	0.77	J
SW8260	78-87-5	1,2-DICHLOROPROPANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	106-46-7	1,4-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	3.4	
SW8260	67-64-1	ACETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	71-43-2	BENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-27-4	BROMODICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	74-83-9	BROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-15-0	CARBON DISULFIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	56-23-5	CARBON TETRACHLORIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-69-4	CFC-11	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-71-8	CFC-12	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	76-13-1	CHLORINATED FLUOROCARBON (FREON 113)	ug/l	4.6		3.8		1	U	1	U	1	U
SW8260	108-90-7	CHLOROBENZENE	ug/l	0.57	J	0.7	J	1	U	1	U	5.9	
SW8260	124-48-1	CHLORODIBROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U

			sys_loc_code	UAW20-60		UAW20-60		UAW21-30		UAW21-80		UAW22-20	
			sys_sample_code	20161214UAW20-60V56FD		20161214UAW20-60V56N		20161213UAW21-30V27N		20161213UAW21-80V72N		20161214UAW22-20V16N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73378		240-73378		240-73378		240-73378		240-73513	
			lab_sample_id	240-73378-6		240-73378-5		240-73378-1		240-73378-8		240-73513-2	
			sample_date	12/14/2016		12/14/2016		12/13/2016		12/13/2016		12/14/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8260	75-00-3	CHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	67-66-3	CHLOROFORM	ug/l	0.8	J	0.79	J	0.67	J	1	U	1	U
SW8260	74-87-3	CHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	14		13		1	U	1	U	1.1	
SW8260	10061-01-5	cis-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	110-82-7	CYCLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-09-2	DICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-41-4	ETHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	541-73-1	M-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	0.62	J
SW8260	79-20-9	METHYL ACETATE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-10-1	METHYL ISOBUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	591-78-6	METHYL N-BUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-88-3	METHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	108-87-2	METHYLCYLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-42-5	STYRENE (MONOMER)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	81		77		7.3		1	U	1	U
SW8260	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	0.92	J	0.82	J	1	U	1	U	1	U
SW8260	10061-02-6	trans-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-25-2	TRIBOMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-01-6	TRICHLOROETHYLENE	ug/l	5.8		5.2		1	U	1	U	1	U
SW8260	75-01-4	VINYL CHLORIDE	ug/l	1	U	1	U	1	U	1	U	0.52	J
SW8260	1330-20-7	XYLENES, TOTAL	ug/l	2	U	2	U	2	U	2	U	2	U
SW8270	218-01-9	1,2-BENZPHENANTHRACENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	2.4	
SW8270	95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	5.4	U	5.7	U	5.7	U	5	U	5.7	U
SW8270	88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	5.4	U	5.7	U	5.7	U	5	U	5.7	U
SW8270	120-83-2	2,4-DICHLOROPHENOL	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	105-67-9	2,4-DIMETHYLPHENOL	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	51-28-5	2,4-DINITROPHENOL	ug/l	43	U	45	U	45	U	40	U	45	U
SW8270	121-14-2	2,4-DINITROTOLUENE	ug/l	5.4	U	5.7	U	5.7	U	5	U	5.7	U
SW8270	606-20-2	2,6-DINITROTOLUENE	ug/l	5.4	U	5.7	U	5.7	U	5	U	5.7	U
SW8270	91-58-7	2-CHLORONAPHTHALENE	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	95-57-8	2-CHLOROPHENOL	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	91-57-6	2-METHYLNAPHTHALENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	0.23	U
SW8270	95-48-7	2-METHYLPHENOL	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	88-74-4	2-NITROANILINE	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	88-75-5	2-NITROPHENOL	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	91-94-1	3,3'-DICHLOROBENZIDINE	ug/l	5.4	U	5.7	U	5.7	U	5	U	5.7	U
SW8270	78-59-1	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	99-09-2	3-NITROANILINE	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	5.4	U	5.7	U	5.7	U	5	U	5.7	U
SW8270	101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	100-02-7	4-NITROPHENOL	ug/l	5.4	U	5.7	U	5.7	U	5	U	5.7	U

			sys_loc_code	UAW20-60		UAW20-60		UAW21-30		UAW21-80		UAW22-20	
			sys_sample_code	20161214UAW20-60V56FD		20161214UAW20-60V56N		20161213UAW21-30V27N		20161213UAW21-80V72N		20161214UAW22-20V16N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73378		240-73378		240-73378		240-73378		240-73513	
			lab_sample_id	240-73378-6		240-73378-5		240-73378-1		240-73378-8		240-73513-2	
			sample_date	12/14/2016		12/14/2016		12/13/2016		12/13/2016		12/14/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8270	83-32-9	ACENAPHTHENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	0.62	
SW8270	208-96-8	ACENAPHTHYLENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	0.23	U
SW8270	98-86-2	ACETOPHENONE	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	62-53-3	ANILINE	ug/l	5.4	U	5.7	U	5.7	U	5	U	5.7	U
SW8270	120-12-7	ANTHRACENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	1.1	
SW8270	1912-24-9	ATRAZINE	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	100-52-7	BENZALDEHYDE	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	56-55-3	BENZO(A)ANTHRACENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	2.2	
SW8270	50-32-8	BENZO(A)PYRENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	2.1	
SW8270	205-99-2	BENZO(B)FLUORANTHENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	3.1	
SW8270	191-24-2	BENZO(G,H,I)PERYLENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	1.1	
SW8270	207-08-9	BENZO(K)FLUORANTHENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	1.5	
SW8270	85-68-7	BENZYL BUTYL PHTHALATE	ug/l	1.1	U	1.1	U	1.1	UJ	1	U	1.1	U
SW8270	92-52-4	BIPHENYL (DIPHENYL)	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	111-44-4	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	105-60-2	CAPROLACTAM	ug/l	5.4	U	5.7	U	5.7	U	5	U	5.7	U
SW8270	86-74-8	CARBAZOLE	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.7	
SW8270	MEPH1314	CRESOLS, M & P	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	0.23	U
SW8270	132-64-9	DIBENZOFURAN	ug/l	1.1	U	1.1	U	1.1	U	1	U	0.36	J
SW8270	84-66-2	DIETHYL PHTHALATE	ug/l	1.1	U	1.1	U	1.1	UJ	1	U	1.1	U
SW8270	131-11-3	DIMETHYL PHTHALATE	ug/l	1.1	U	1.1	U	1.1	UJ	1	U	1.1	U
SW8270	84-74-2	DI-N-BUTYL PHTHALATE	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	117-84-0	DI-N-OCTYLPHTHALATE	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	206-44-0	FLUORANTHENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	5.9	
SW8270	86-73-7	FLUORENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	0.39	
SW8270	87-68-3	HEXACHLORO-1,3-BUTADIENE	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	118-74-1	HEXACHLOROBENZENE	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	11	U	11	U	11	U	10	U	11	U
SW8270	67-72-1	HEXACHLOROETHANE	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	1.1	
SW8270	91-20-3	NAPHTHALENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	0.23	
SW8270	98-95-3	NITROBENZENE	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	86-30-6	N-NITROSODIPHENYLAMINE	ug/l	1.1	U	1.1	U	1.1	U	1	U	1.1	U
SW8270	106-47-8	P-CHLOROANILINE	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	87-86-5	PENTACHLOROPHENOL	ug/l	43	U	45	U	45	U	40	U	45	U
SW8270	85-01-8	PHENANTHRENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	3.2	
SW8270	108-95-2	PHENOL	ug/l	1.1	U	1.1	U	1.1	U	1	U	0.38	J
SW8270	100-01-6	P-NITROANILINE	ug/l	2.2	U	2.3	U	2.3	U	2	U	2.3	U
SW8270	129-00-0	PYRENE	ug/l	0.22	U	0.23	U	0.23	U	0.2	U	4.6	

			sys_loc_code	UAW23-20		UAW24-70		UAW25-20		UAW26-70		UAW27-50	
			sys_sample_code	20161213UAW23-20V23N		20161215UAW24-70V68N		20161206UAW25-20V20N		20161208UAW26-70V72N		20161215UAW27-50V43N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73378		240-73513		240-72916		240-73120		240-73513	
			lab_sample_id	240-73378-7		240-73513-3		240-72916-3		240-73120-9		240-73513-7	
			sample_date	12/13/2016		12/15/2016		12/6/2016		12/8/2016		12/15/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW6010	7429-90-5	ALUMINUM (FUME OR DUST)	ug/l	200	U	200	U	200	U	200	U	200	U
SW6010	7440-36-0	ANTIMONY	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-38-2	ARSENIC	ug/l	10	U	10	U	12		13		10	U
SW6010	7440-39-3	BARIUM	ug/l	47	J	180	J	180	J	260		41	J
SW6010	7440-41-7	BERYLLIUM	ug/l	5	U	5	U	0.24	J	5	U	0.29	J
SW6010	7440-43-9	CADMIUM	ug/l	0.32	J	0.72	J	2	U	2	U	2	U
SW6010	7440-70-2	CALCIUM METAL	ug/l	270000		75000		230000		130000		170000	
SW6010	7440-47-3	CHROMIUM, TOTAL	ug/l	54		0.75	J	120		2	J	3.7	J
SW6010	7440-48-4	COBALT	ug/l	7	U	7	U	7	U	7	U	7	U
SW6010	7440-50-8	COPPER	ug/l	25	U	25	U	25	U	25	U	25	U
SW6010	7439-89-6	IRON	ug/l	7200		74	J	6600		3100		78	J
SW6010	7439-92-1	LEAD	ug/l	5	U	5	U	5	U	2.5	J	5	U
SW6010	7439-95-4	MAGNESIUM	ug/l	65000		21000		41000		43000		52000	
SW6010	7439-96-5	MANGANESE	ug/l	79		15	U	590		280		33	
SW6010	7440-02-0	NICKEL	ug/l	45		4.9	J	30	J	1.6	J	4.4	J
SW6010	7440-09-7	POTASSIUM	ug/l	23000		3200	J	7800		1600	J	1500	J
SW6010	7782-49-2	SELENIUM	ug/l	30		15	U	15	U	15	U	15	U
SW6010	7440-22-4	SILVER	ug/l	5	U	5	U	5	U	5	U	5	U
SW6010	7440-23-5	SODIUM	ug/l	97000		77000		330000		28000		40000	
SW6010	7440-28-0	THALLIUM	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-31-5	TIN	ug/l	100	U	22	J	29	J	100	U	100	U
SW6010	7440-62-2	VANADIUM (FUME OR DUST)	ug/l	10	U	10	U	10	U	10	U	10	U
SW6010	7440-66-6	ZINC	ug/l	50	U	18	J	50	U	50	U	50	U
SW7470	7439-97-6	MERCURY	ug/l	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
SW8260	71-55-6	1,1,1-TRICHLOROETHANE	ug/l	7.3		1	U	1	U	1	U	5.8	
SW8260	79-34-5	1,1,2,2-TETRACHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-00-5	1,1,2-TRICHLOROETHANE	ug/l	0.61	J	1	U	1	U	1	U	0.38	J
SW8260	75-34-3	1,1-DICHLOROETHANE	ug/l	5.1		1	U	1	U	1	U	4.3	
SW8260	75-35-4	1,1-DICHLOROETHYLENE	ug/l	0.49	J	1	U	1	U	1	U	0.77	J
SW8260	120-82-1	1,2,4-TRICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	96-12-8	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	ug/l	2	U	2	U	2	U	2	U	2	U
SW8260	106-93-4	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	95-50-1	1,2-DICHLOROBENZENE	ug/l	1	U	1	U	1.8		1.9		1	U
SW8260	107-06-2	1,2-DICHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	0.48	J
SW8260	78-87-5	1,2-DICHLOROPROPANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	106-46-7	1,4-DICHLOROBENZENE	ug/l	1	U	1	U	0.72	J	1	U	1	U
SW8260	67-64-1	ACETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	71-43-2	BENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-27-4	BROMODICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	74-83-9	BROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-15-0	CARBON DISULFIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	56-23-5	CARBON TETRACHLORIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-69-4	CFC-11	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-71-8	CFC-12	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	76-13-1	CHLORINATED FLUOROCARBON (FREON 113)	ug/l	0.65	J	1	U	1	U	1	U	1	U
SW8260	108-90-7	CHLOROBENZENE	ug/l	1	U	1	U	0.39	J	1	U	1	U
SW8260	124-48-1	CHLORODIBROMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U

			sys_loc_code	UAW23-20		UAW24-70		UAW25-20		UAW26-70		UAW27-50	
			sys_sample_code	20161213UAW23-20V23N		20161215UAW24-70V68N		20161206UAW25-20V20N		20161208UAW26-70V72N		20161215UAW27-50V43N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73378		240-73513		240-72916		240-73120		240-73513	
			lab_sample_id	240-73378-7		240-73513-3		240-72916-3		240-73120-9		240-73513-7	
			sample_date	12/13/2016		12/15/2016		12/6/2016		12/8/2016		12/15/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8260	75-00-3	CHLOROETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	67-66-3	CHLOROFORM	ug/l	4.8		1	U	1	U	1	U	0.38	J
SW8260	74-87-3	CHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	156-59-2	CIS-1,2-DICHLOROETHYLENE	ug/l	2.7		1	U	1	U	1	U	11	
SW8260	10061-01-5	cis-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	110-82-7	CYCLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-09-2	DICHLOROMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-41-4	ETHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	98-82-8	ISOPROPYLBENZENE (CUMENE)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	541-73-1	M-DICHLOROBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-20-9	METHYL ACETATE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	78-93-3	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-10-1	METHYL ISOBUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	591-78-6	METHYL N-BUTYL KETONE	ug/l	10	U	10	U	10	U	10	U	10	U
SW8260	108-88-3	METHYLBENZENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	108-87-2	METHYLCYLOHEXANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	100-42-5	STYRENE (MONOMER)	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	1634-04-4	TERT-BUTYL METHYL ETHER	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	127-18-4	TETRACHLOROETHYLENE(PCE)	ug/l	10		1	U	1	U	1	U	1	U
SW8260	156-60-5	TRANS-1,2-DICHLOROETHENE	ug/l	0.57	J	1	U	1	U	1	U	0.44	J
SW8260	10061-02-6	trans-1,3-DICHLOROPROPENE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	75-25-2	TRIBOMOMETHANE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	79-01-6	TRICHLOROETHYLENE	ug/l	1.7		1	U	1	U	1	U	1.4	
SW8260	75-01-4	VINYL CHLORIDE	ug/l	1	U	1	U	1	U	1	U	1	U
SW8260	1330-20-7	XYLENES, TOTAL	ug/l	2	U	2	U	2	U	2	U	2	U
SW8270	218-01-9	1,2-BENZPHENANTHRACENE	ug/l	0.2	U	0.26		0.22	U	0.24	U	0.2	U
SW8270	95-95-4	2,4,5-TRICHLOROPHENOL	ug/l	5	U	5.2	U	5.4	U	6	U	5	U
SW8270	88-06-2	2,4,6-TRICHLOROPHENOL	ug/l	5	U	5.2	U	5.4	U	6	U	5	U
SW8270	120-83-2	2,4-DICHLOROPHENOL	ug/l	2	U	2.1	U	2.2	U	2.4	U	2	U
SW8270	105-67-9	2,4-DIMETHYLPHENOL	ug/l	2	U	2.1	U	2.2	U	2.4	U	2	U
SW8270	51-28-5	2,4-DINITROPHENOL	ug/l	40	U	42	U	43	U	48	U	40	U
SW8270	121-14-2	2,4-DINITROTOLUENE	ug/l	5	U	5.2	U	5.4	U	6	U	5	U
SW8270	606-20-2	2,6-DINITROTOLUENE	ug/l	5	U	5.2	U	5.4	U	6	U	5	U
SW8270	91-58-7	2-CHLORONAPHTHALENE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	95-57-8	2-CHLOROPHENOL	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	91-57-6	2-METHYLNAPHTHALENE	ug/l	0.2	U	0.21	U	0.22	U	0.24	U	0.2	U
SW8270	95-48-7	2-METHYLPHENOL	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	88-74-4	2-NITROANILINE	ug/l	2	U	2.1	U	2.2	U	2.4	U	2	U
SW8270	88-75-5	2-NITROPHENOL	ug/l	2	U	2.1	U	2.2	U	2.4	U	2	U
SW8270	91-94-1	3,3'-DICHLOROBENZIDINE	ug/l	5	U	5.2	U	5.4	U	6	U	5	U
SW8270	78-59-1	3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	99-09-2	3-NITROANILINE	ug/l	2	U	2.1	U	2.2	UJ	2.4	U	2	U
SW8270	534-52-1	4,6-DINITRO-2-METHYLPHENOL	ug/l	5	U	5.2	U	5.4	U	6	U	5	U
SW8270	101-55-3	4-BROMOPHENYL PHENYL ETHER	ug/l	2	U	2.1	U	2.2	U	2.4	U	2	U
SW8270	59-50-7	4-CHLORO-3-METHYLPHENOL	ug/l	2	U	2.1	U	2.2	U	2.4	U	2	U
SW8270	7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ug/l	2	U	2.1	U	2.2	U	2.4	U	2	U
SW8270	100-02-7	4-NITROPHENOL	ug/l	5	U	5.2	U	5.4	U	6	U	5	U

			sys_loc_code	UAW23-20		UAW24-70		UAW25-20		UAW26-70		UAW27-50	
			sys_sample_code	20161213UAW23-20V23N		20161215UAW24-70V68N		20161206UAW25-20V20N		20161208UAW26-70V72N		20161215UAW27-50V43N	
			matrix_code	WG		WG		WG		WG		WG	
			field_sdg	240-73378		240-73513		240-72916		240-73120		240-73513	
			lab_sample_id	240-73378-7		240-73513-3		240-72916-3		240-73120-9		240-73513-7	
			sample_date	12/13/2016		12/15/2016		12/6/2016		12/8/2016		12/15/2016	
			task_code	2016GW		2016GW		2016GW		2016GW		2016GW	
analytic_method	cas_rn	chemical_name	report_result_unit										
SW8270	83-32-9	ACENAPHTHENE	ug/l	0.2	U	0.21	U	0.22	U	0.24	U	0.2	U
SW8270	208-96-8	ACENAPHTHYLENE	ug/l	0.2	U	0.21	U	0.22	U	0.24	U	0.2	U
SW8270	98-86-2	ACETOPHENONE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	62-53-3	ANILINE	ug/l	5	U	5.2	U	5.4	U	6	U	5	U
SW8270	120-12-7	ANTHRACENE	ug/l	0.2	U	0.21	U	0.22	U	0.24	U	0.2	U
SW8270	1912-24-9	ATRAZINE	ug/l	2	U	2.1	U	2.2	U	2.4	U	2	U
SW8270	100-52-7	BENZALDEHYDE	ug/l	2	U	2.1	U	2.2	U	2.4	U	2	U
SW8270	56-55-3	BENZO(A)ANTHRACENE	ug/l	0.2	U	0.22		0.22	U	0.24	U	0.2	U
SW8270	50-32-8	BENZO(A)PYRENE	ug/l	0.2	U	0.21	U	0.22	U	0.24	U	0.2	U
SW8270	205-99-2	BENZO(B)FLUORANTHENE	ug/l	0.2	U	0.21	U	0.22	U	0.24	U	0.2	U
SW8270	191-24-2	BENZO(G,H,I)PERYLENE	ug/l	0.2	U	0.21	U	0.22	U	0.24	U	0.2	U
SW8270	207-08-9	BENZO(K)FLUORANTHENE	ug/l	0.2	U	0.21	U	0.22	U	0.24	U	0.2	U
SW8270	85-68-7	BENZYL BUTYL PHTHALATE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	92-52-4	BIPHENYL (DIPHENYL)	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	111-91-1	BIS(2-CHLOROETHOXY) METHANE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	111-44-4	BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	2	U	2.1	U	2.2	U	2.4	U	2	U
SW8270	105-60-2	CAPROLACTAM	ug/l	5	U	5.2	U	4.3	J	6	U	5	U
SW8270	86-74-8	CARBAZOLE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	MEPH1314	CRESOLS, M & P	ug/l	2	U	2.1	U	2.2	U	2.4	U	2	U
SW8270	53-70-3	DIBENZ(A,H)ANTHRACENE	ug/l	0.2	U	0.21	U	0.22	U	0.24	U	0.2	U
SW8270	132-64-9	DIBENZOFURAN	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	84-66-2	DIETHYL PHTHALATE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	131-11-3	DIMETHYL PHTHALATE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	84-74-2	DI-N-BUTYL PHTHALATE	ug/l	1	U	1.3	U	1.1	U	1.2	U	1	U
SW8270	117-84-0	DI-N-OCTYLPHTHALATE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	206-44-0	FLUORANTHENE	ug/l	0.2	U	0.55		0.22	U	0.24	U	0.2	U
SW8270	86-73-7	FLUORENE	ug/l	0.2	U	0.21	U	0.22	U	0.24	U	0.2	U
SW8270	87-68-3	HEXACHLORO-1,3-BUTADIENE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	118-74-1	HEXACHLOROBENZENE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	77-47-4	HEXACHLOROCYCLOPENTADIENE	ug/l	10	U	10	U	11	U	12	U	10	U
SW8270	67-72-1	HEXACHLOROETHANE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	193-39-5	INDENO(1,2,3-C,D)PYRENE	ug/l	0.2	U	0.21	U	0.22	U	0.24	U	0.2	U
SW8270	91-20-3	NAPHTHALENE	ug/l	0.2	U	0.21	U	0.22	U	0.24	U	0.2	U
SW8270	98-95-3	NITROBENZENE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	621-64-7	N-NITROSODI-N-PROPYLAMINE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	86-30-6	N-NITROSODIPHENYLAMINE	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	106-47-8	P-CHLOROANILINE	ug/l	2	U	2.1	U	2.2	U	2.4	U	2	U
SW8270	87-86-5	PENTACHLOROPHENOL	ug/l	40	U	42	U	43	UJ	48	U	40	U
SW8270	85-01-8	PHENANTHRENE	ug/l	0.2	U	0.41		0.22	U	0.24	U	0.2	U
SW8270	108-95-2	PHENOL	ug/l	1	U	1	U	1.1	U	1.2	U	1	U
SW8270	100-01-6	P-NITROANILINE	ug/l	2	U	2.1	U	2.2	U	2.4	U	2	U
SW8270	129-00-0	PYRENE	ug/l	0.2	U	0.45		0.22	U	0.24	U	0.2	U

Appendix E

Mann-Kendall Trend Test Analyses

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 9:09:57 AM	
From File	ProUCL-Trends-2016 Data.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

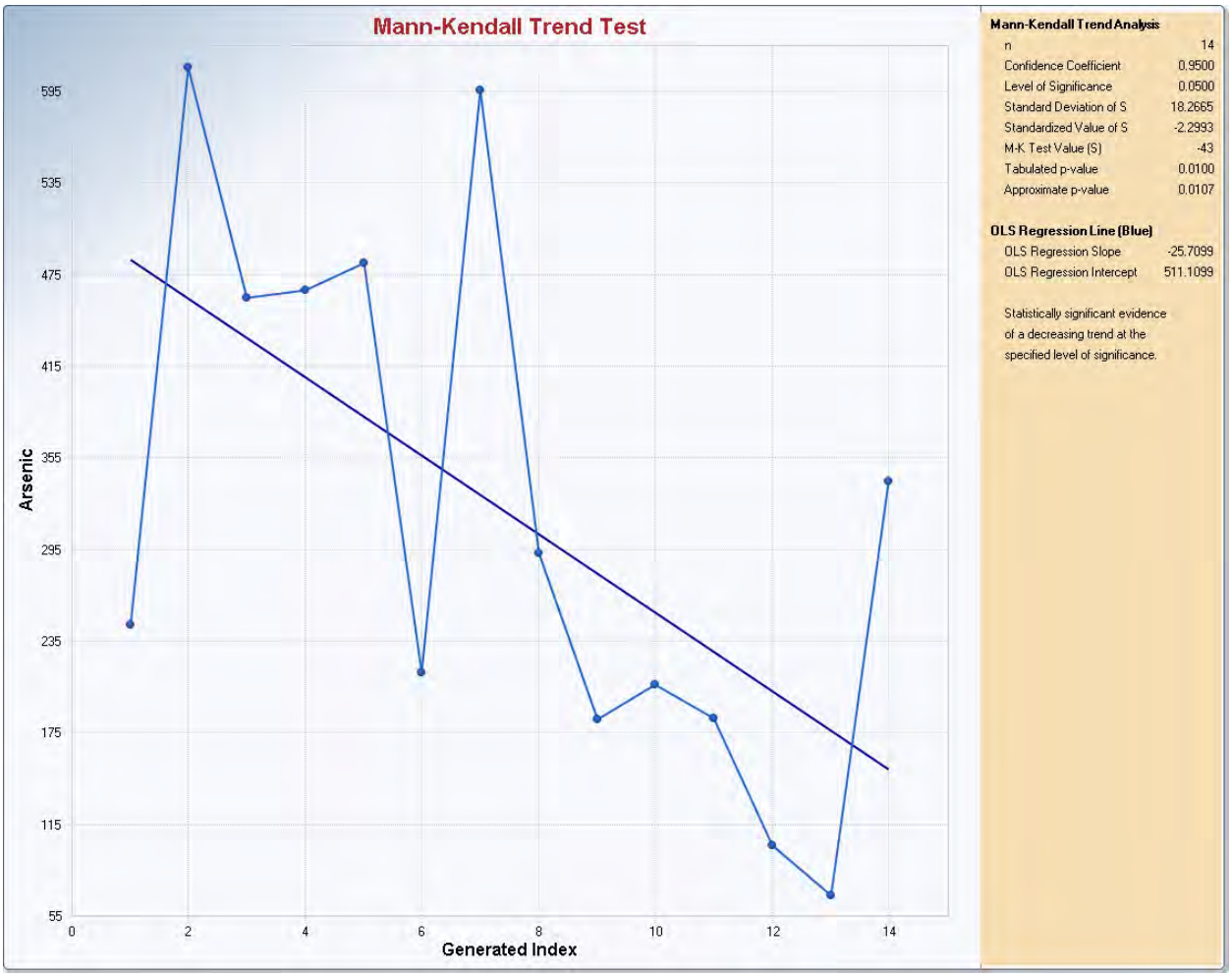
MW-EPA-1

Arsenic

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	69
Maximum	611
Mean	318.3
Geometric Mean	267.9
Median	269.5
Standard Deviation	176.6
Coefficient of Variation	0.555

Mann-Kendall Test	
M-K Test Value (S)	-43
Tabulated p-value	0.01
Standard Deviation of S	18.27
Standardized Value of S	-2.299
Approximate p-value	0.0107

Statistically significant evidence of a decreasing trend at the specified level of significance.



MW-EPA-1

Arsenic

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 9:13:04 AM	
From File	ProUCL-Trends-2016 Data.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

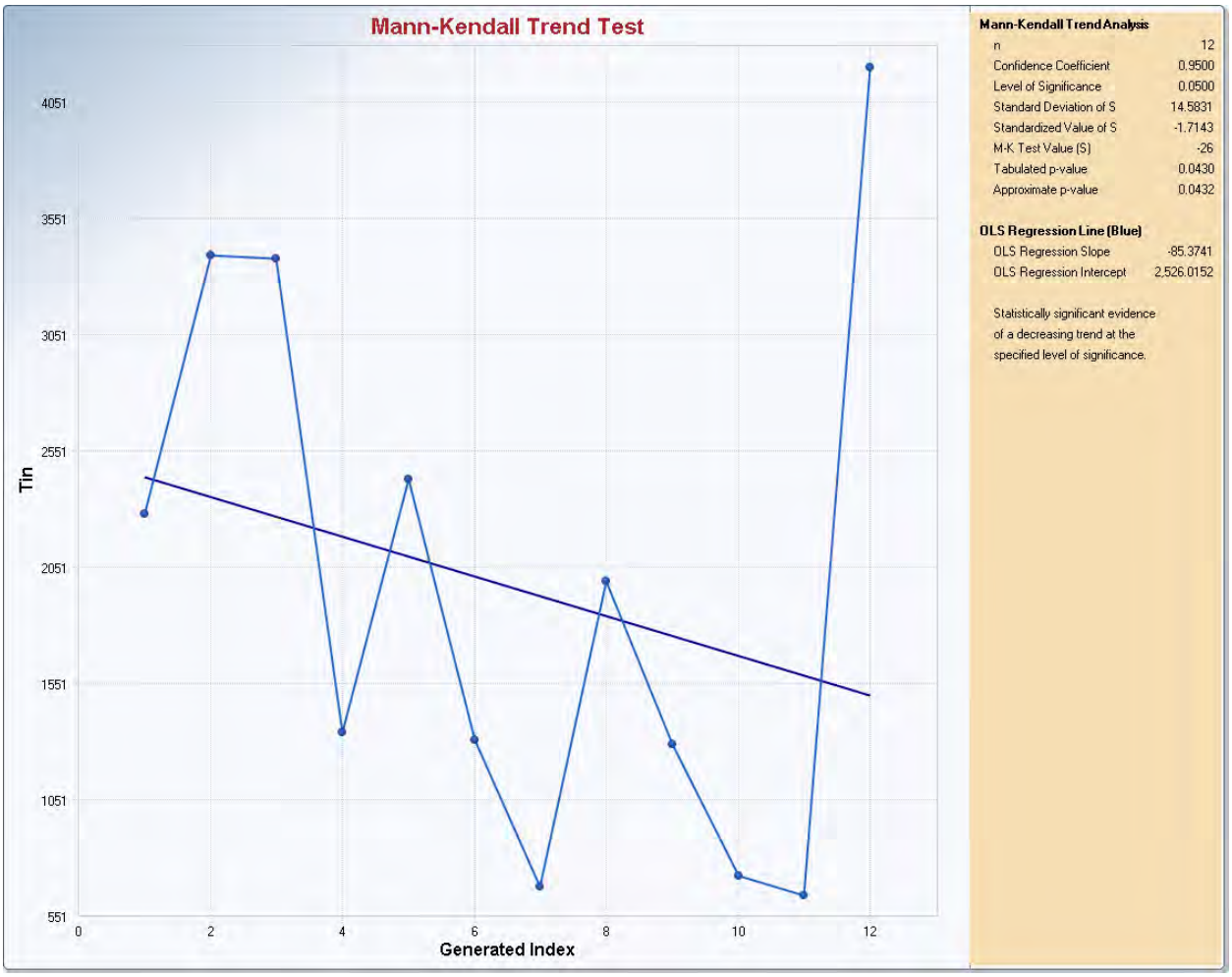
MW-EPA-1

Tin

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	12
Number Values Reported (n)	14
Number Values Missing	2
Number Values Used	12
Minimum	640
Maximum	4200
Mean	1971
Geometric Mean	1640
Median	1665
Standard Deviation	1190
Coefficient of Variation	0.604

Mann-Kendall Test	
M-K Test Value (S)	-26
Tabulated p-value	0.043
Standard Deviation of S	14.58
Standardized Value of S	-1.714
Approximate p-value	0.0432

Statistically significant evidence of a decreasing trend at the specified level of significance.


Mann-Kendall Trend Test
4051
3551
3051
2551
2051
1551
1051
551
Tin
0
2
4
6
8
10
12
Generated Index
Mann-Kendall Trend Analysis
n 12
Confidence Coefficient 0.9500
Level of Significance 0.0500
Standard Deviation of S 14.5831
Standardized Value of S -1.7143
M-K Test Value (S) -26
Tabulated p-value 0.0430
Approximate p-value 0.0432
OLS Regression Line (Blue)
OLS Regression Slope -85.3741
OLS Regression Intercept 2,526.0152
Statistically significant evidence of a decreasing trend at the specified level of significance.

MW-EPA-1

Tin

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 9:13:53 AM	
From File	ProUCL-Trends-2016 Data.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

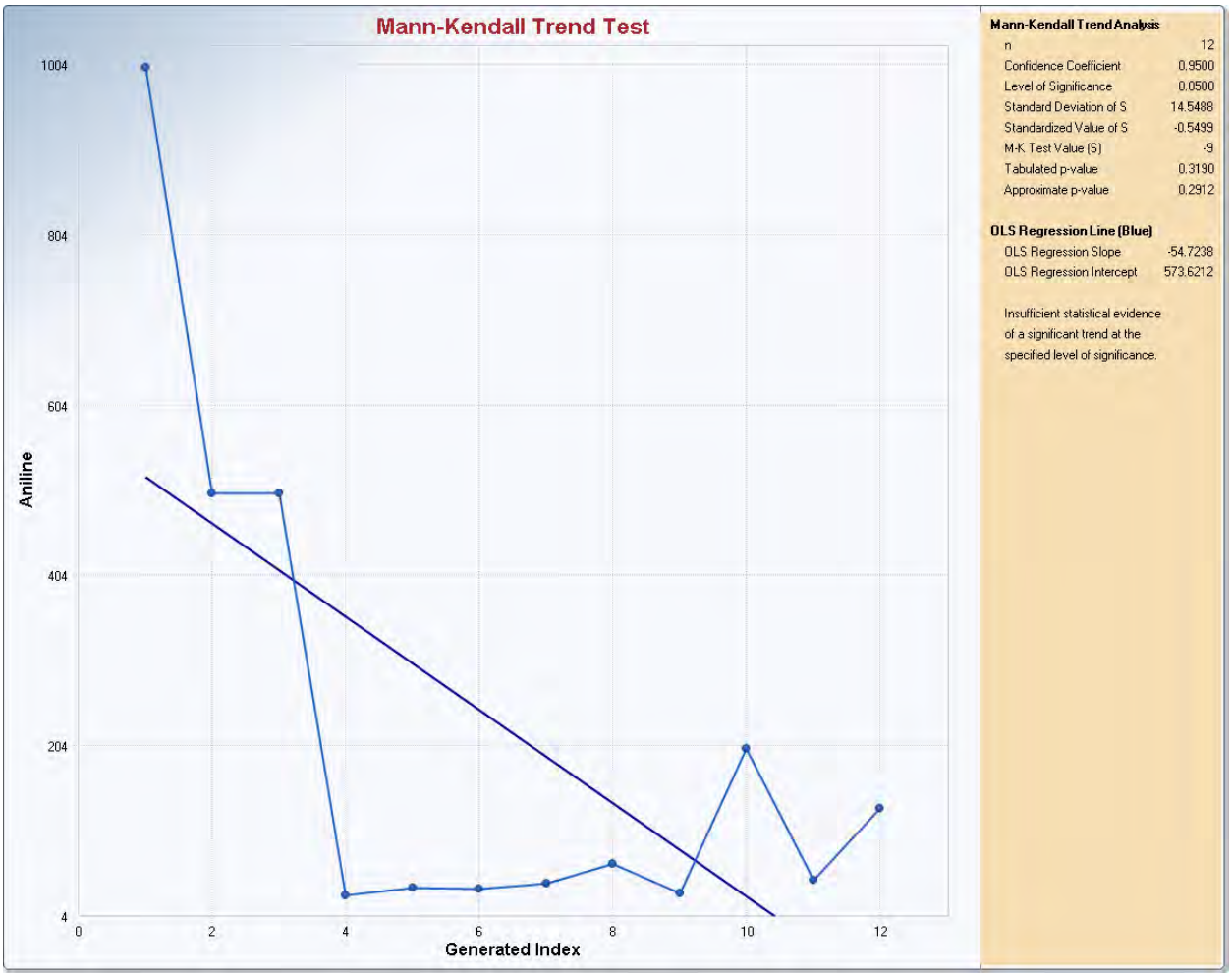
MW-EPA-1

Aniline

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	12
Number Values Reported (n)	14
Number Values Missing	2
Number Values Used	12
Minimum	28
Maximum	1000
Mean	217.9
Geometric Mean	99.52
Median	55.5
Standard Deviation	301.4
Coefficient of Variation	1.383

Mann-Kendall Test	
M-K Test Value (S)	-9
Tabulated p-value	0.319
Standard Deviation of S	14.55
Standardized Value of S	-0.55
Approximate p-value	0.291

Insufficient evidence to identify a significant trend at the specified level of significance.



MW-EPA-1

Aniline

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 9:14:17 AM	
From File	ProUCL-Trends-2016 Data.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

MW-EPA-1

Chlorobenzene

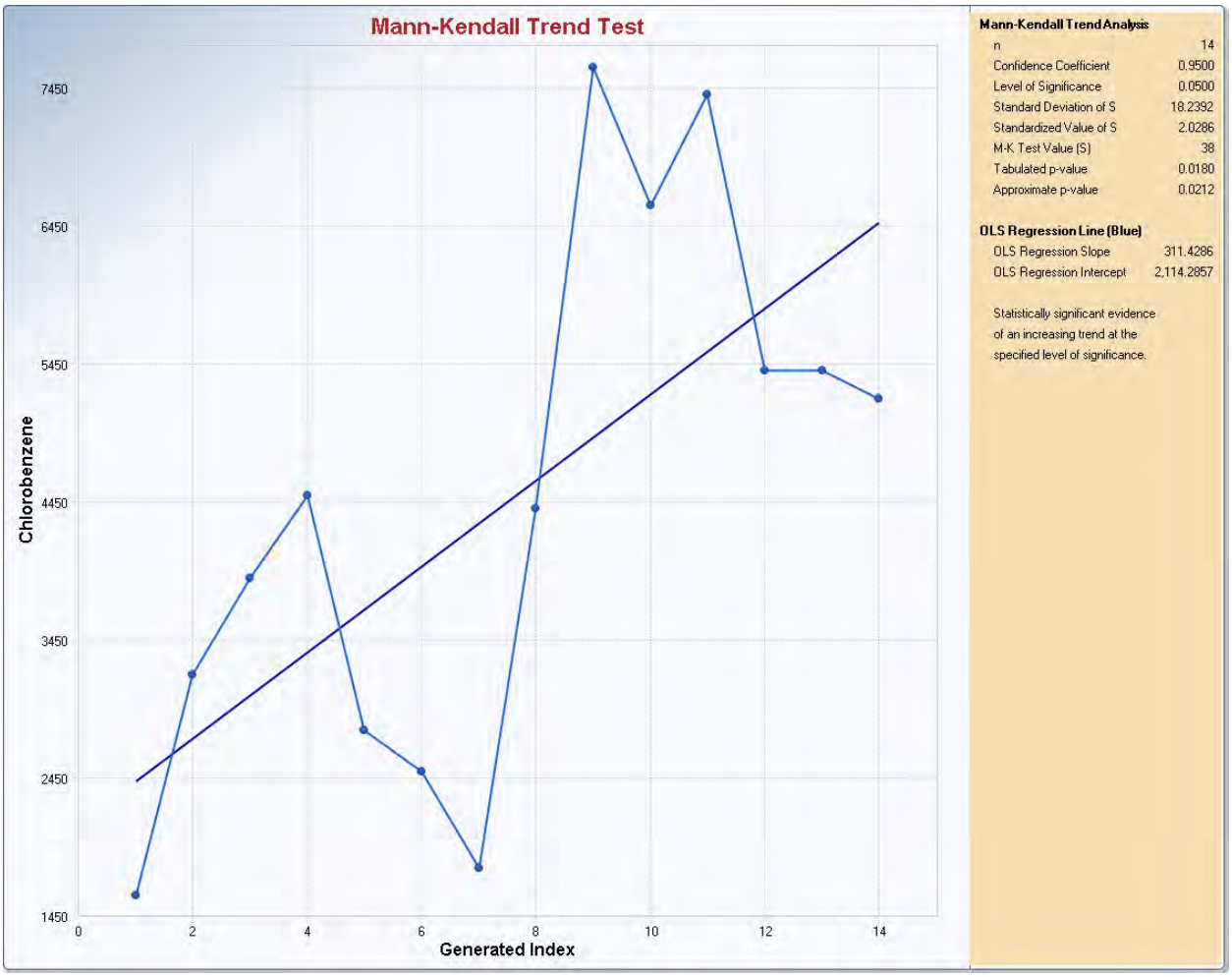
General Statistics

Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	1600
Maximum	7600
Mean	4450
Geometric Mean	4012
Median	4450
Standard Deviation	1945
Coefficient of Variation	0.437

Mann-Kendall Test

M-K Test Value (S)	38
Tabulated p-value	0.018
Standard Deviation of S	18.24
Standardized Value of S	2.029
Approximate p-value	0.0212

Statistically significant evidence of an increasing trend at the specified level of significance.



MW-EPA-1

Chlorobenzene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 9:14:31 AM	
From File	ProUCL-Trends-2016 Data.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

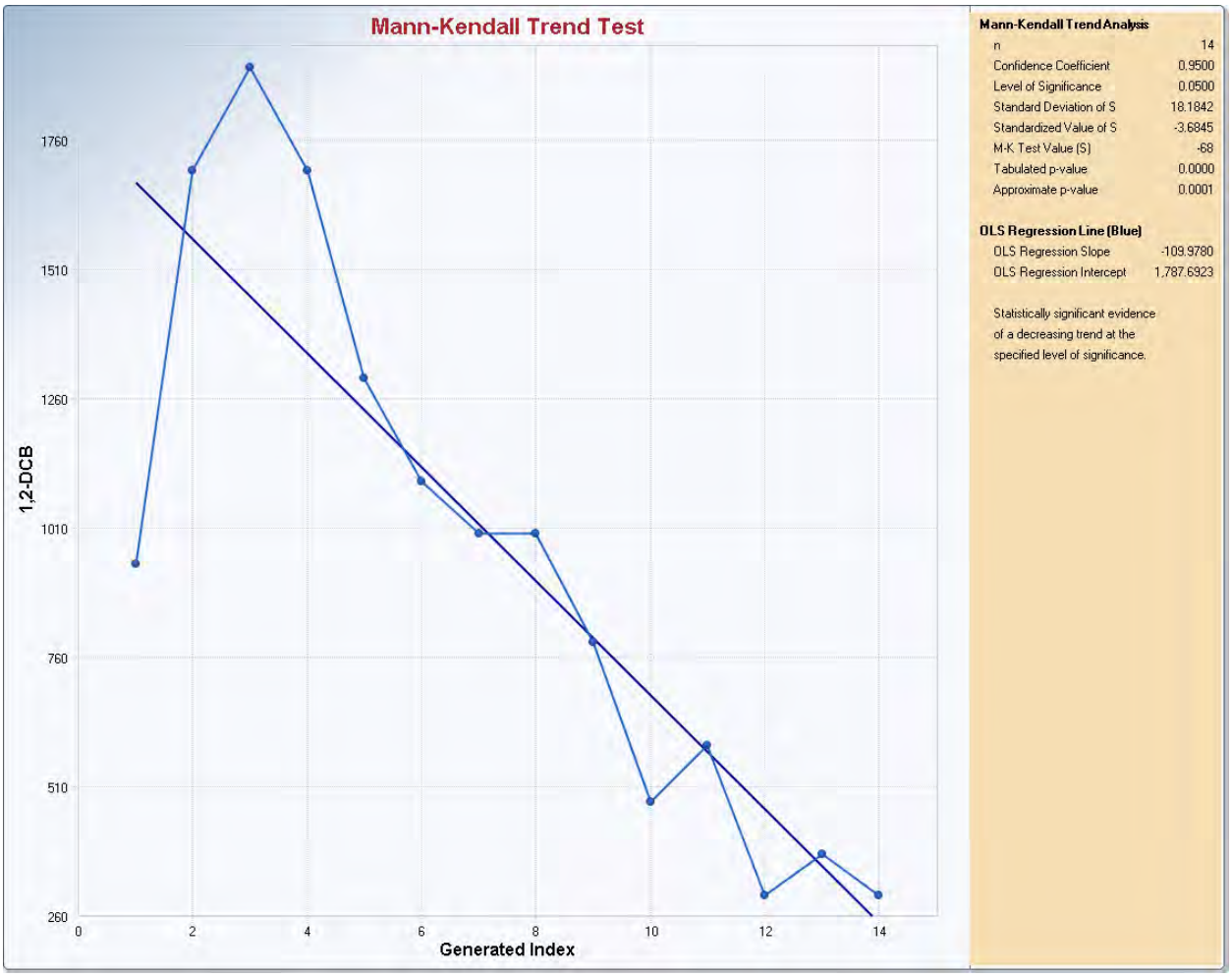
MW-EPA-1

1,2-DCB

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	300
Maximum	1900
Mean	962.9
Geometric Mean	814.4
Median	970
Standard Deviation	535
Coefficient of Variation	0.556

Mann-Kendall Test	
M-K Test Value (S)	-68
Tabulated p-value	0
Standard Deviation of S	18.18
Standardized Value of S	-3.685
Approximate p-value	1.1457E-4

Statistically significant evidence of a decreasing trend at the specified level of significance.



MW-EPA-1

1,2-Dichlorobenzene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 9:14:59 AM	
From File	ProUCL-Trends-2016 Data.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

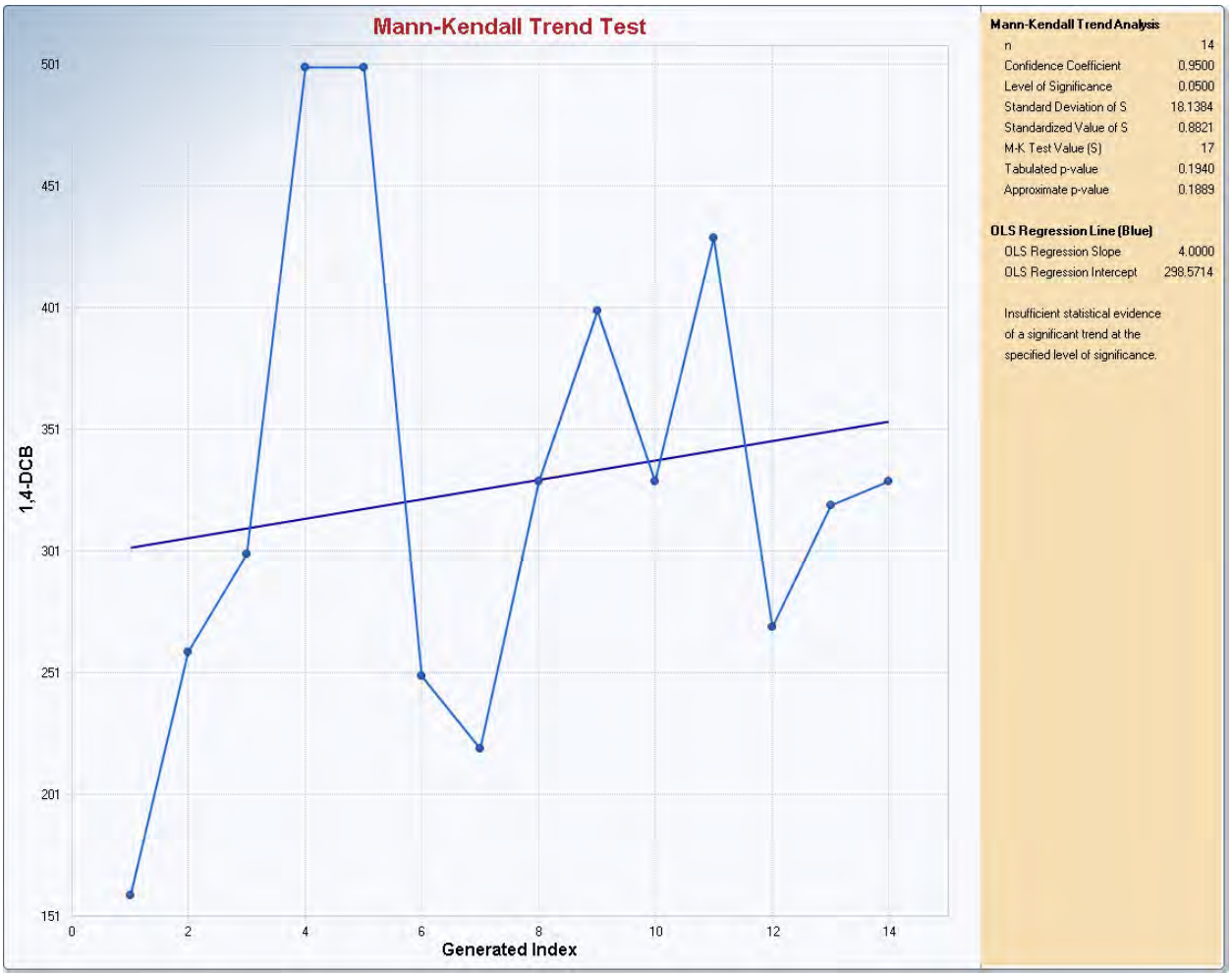
MW-EPA-1

1,4-DCB

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	160
Maximum	500
Mean	328.6
Geometric Mean	314.3
Median	325
Standard Deviation	99.84
Coefficient of Variation	0.304

Mann-Kendall Test	
M-K Test Value (S)	17
Tabulated p-value	0.194
Standard Deviation of S	18.14
Standardized Value of S	0.882
Approximate p-value	0.189

Insufficient evidence to identify a significant trend at the specified level of significance.



MW-EPA-1

1,4-Dichlorobenzene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:06:55 AM	
From File	ProUCL-Trends-2016 Data_c.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

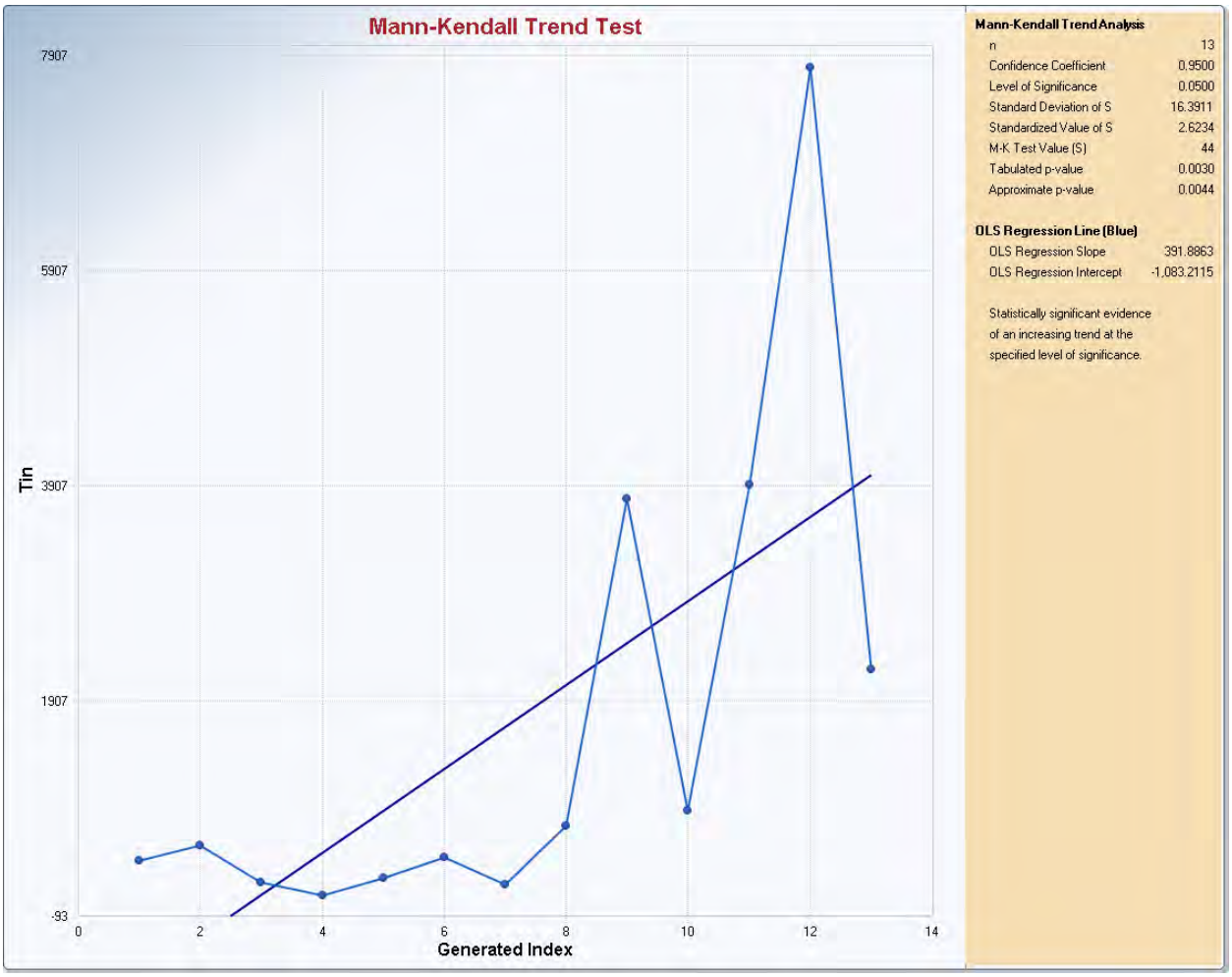
UAW05-20

Tin

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	13
Number Values Reported (n)	15
Number Values Missing	2
Number Values Used	13
Minimum	99.9
Maximum	7800
Mean	1660
Geometric Mean	745
Median	569
Standard Deviation	2270
Coefficient of Variation	1.367

Mann-Kendall Test	
M-K Test Value (S)	44
Tabulated p-value	0.003
Standard Deviation of S	16.39
Standardized Value of S	2.623
Approximate p-value	0.00435

Statistically significant evidence of an increasing trend at the specified level of significance.


Mann-Kendall Trend Test
7907
5907
3907
1907
-93
Tin
0
2
4
6
8
10
12
14
Generated Index
Mann-Kendall Trend Analysis
n 13
Confidence Coefficient 0.9500
Level of Significance 0.0500
Standard Deviation of S 16.3911
Standardized Value of S 2.6234
M-K Test Value (S) 44
Tabulated p-value 0.0030
Approximate p-value 0.0044
OLS Regression Line (Blue)
OLS Regression Slope 391.8863
OLS Regression Intercept -1,083.2115
Statistically significant evidence of an increasing trend at the specified level of significance.

UAW05-20

Tin

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:09:21 AM	
From File	ProUCL-Trends-2016 Data_c.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

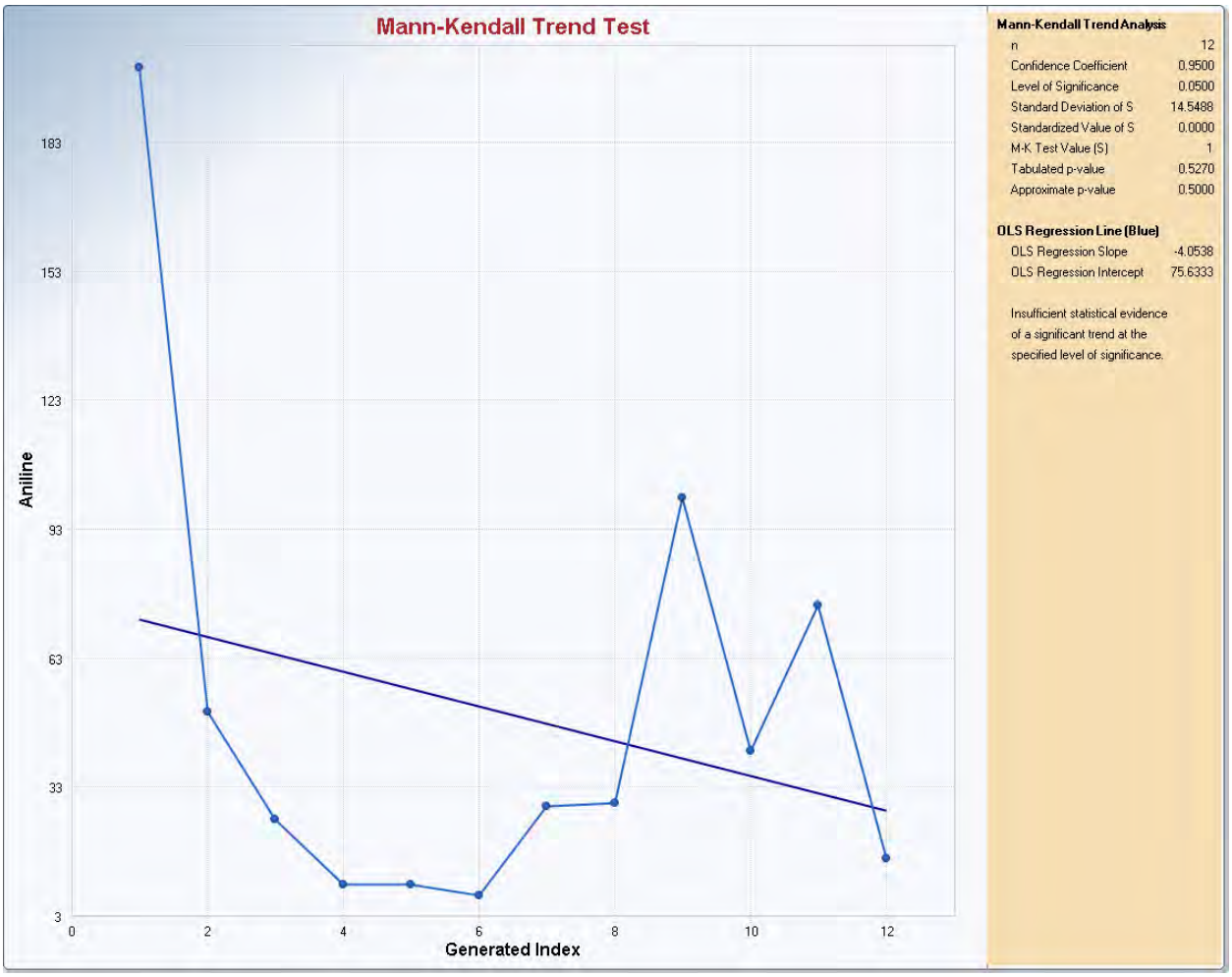
UAW05-20

Aniline

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	12
Number Values Reported (n)	15
Number Values Missing	3
Number Values Used	12
Minimum	7.4
Maximum	200
Mean	49.28
Geometric Mean	30.84
Median	28.5
Standard Deviation	55.12
Coefficient of Variation	1.118

Mann-Kendall Test	
M-K Test Value (S)	1
Tabulated p-value	0.527
Standard Deviation of S	14.55
Standardized Value of S	0
Approximate p-value	0.5

Insufficient evidence to identify a significant trend at the specified level of significance.



UAW05-20

Aniline

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:11:00 AM	
From File	ProUCL-Trends-2016 Data_c.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

UAW05-20

Chlorobenzene

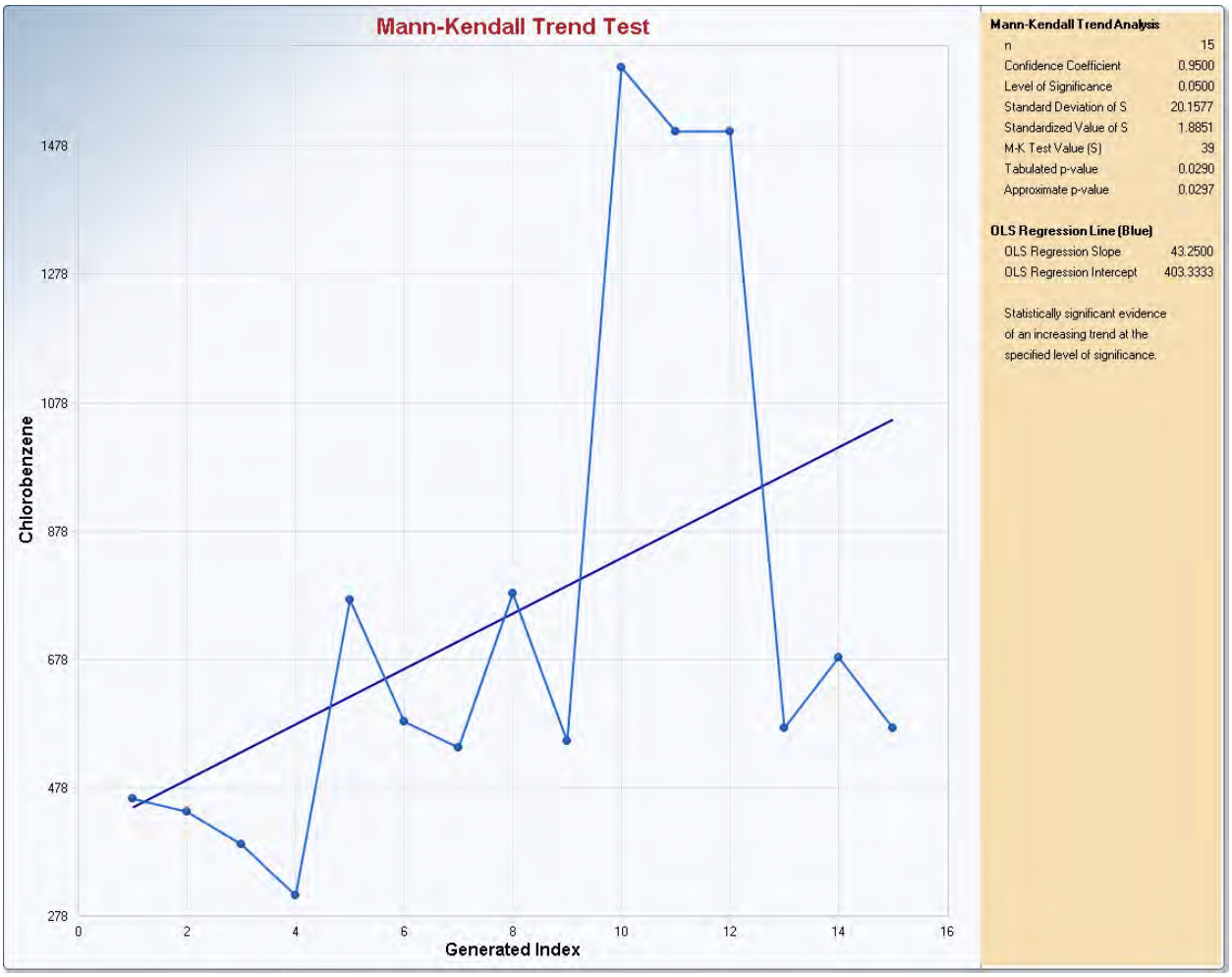
General Statistics

Number or Reported Events Not Used	0
Number of Generated Events	15
Number Values Reported (n)	15
Minimum	310
Maximum	1600
Mean	749.3
Geometric Mean	661.1
Median	570
Standard Deviation	425.5
Coefficient of Variation	0.568

Mann-Kendall Test

M-K Test Value (S)	39
Tabulated p-value	0.029
Standard Deviation of S	20.16
Standardized Value of S	1.885
Approximate p-value	0.0297

Statistically significant evidence of an increasing trend at the specified level of significance.



UAW05-20

Chlorobenzene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:12:40 AM	
From File	ProUCL-Trends-2016 Data_c.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

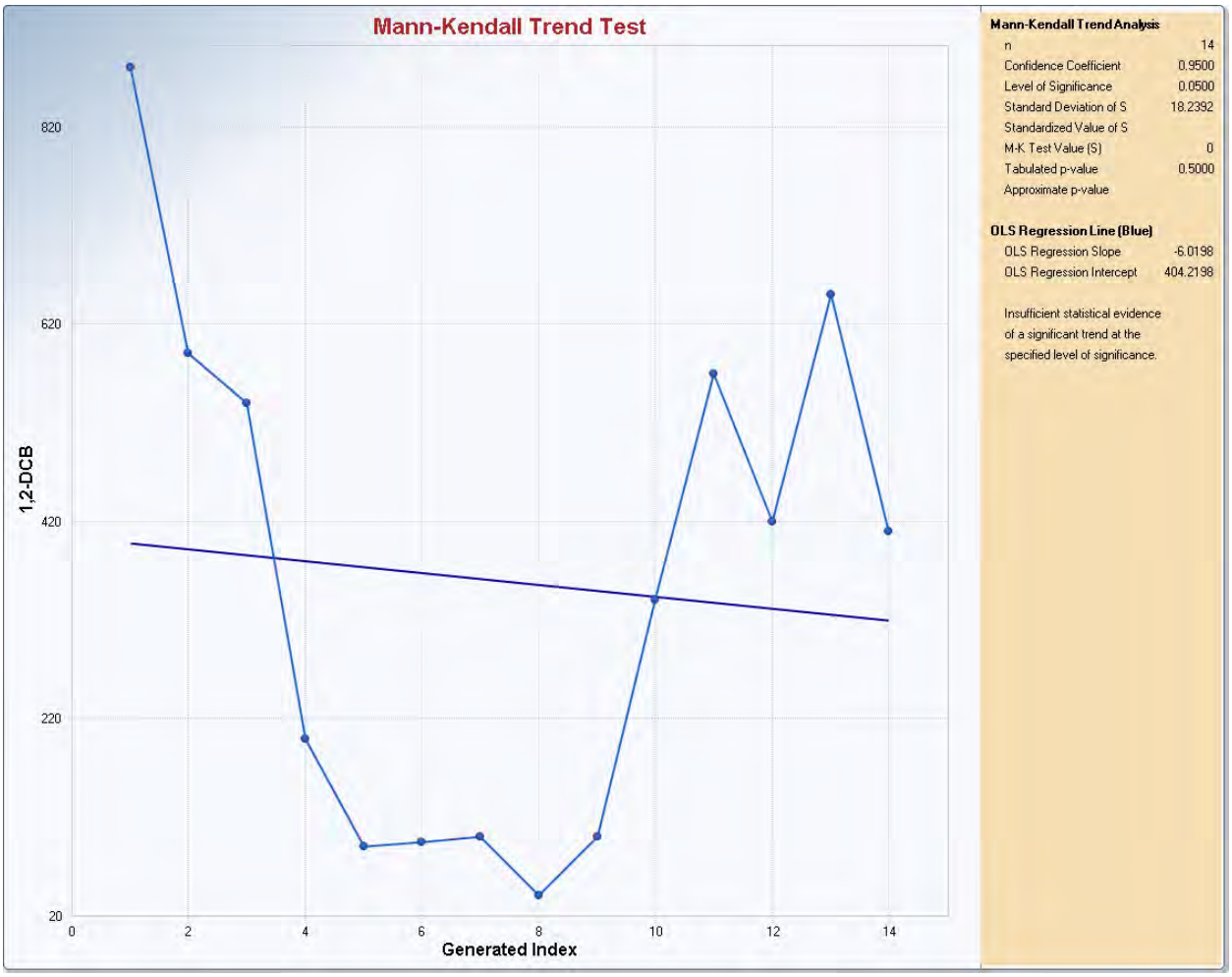
UAW05-20

1,2-DCB

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	15
Number Values Missing	1
Number Values Used	14
Minimum	41
Maximum	880
Mean	359.1
Geometric Mean	252.6
Median	375
Standard Deviation	262.5
Coefficient of Variation	0.731

Mann-Kendall Test	
M-K Test Value (S)	0
Tabulated p-value	0.5
Standard Deviation of S	18.24
Standardized Value of S	N/A
Approximate p-value	N/A

Insufficient evidence to identify a significant trend at the specified level of significance.



UAW05-20

1,2-Dichlorobenzene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:14:16 AM	
From File	ProUCL-Trends-2016 Data_c.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

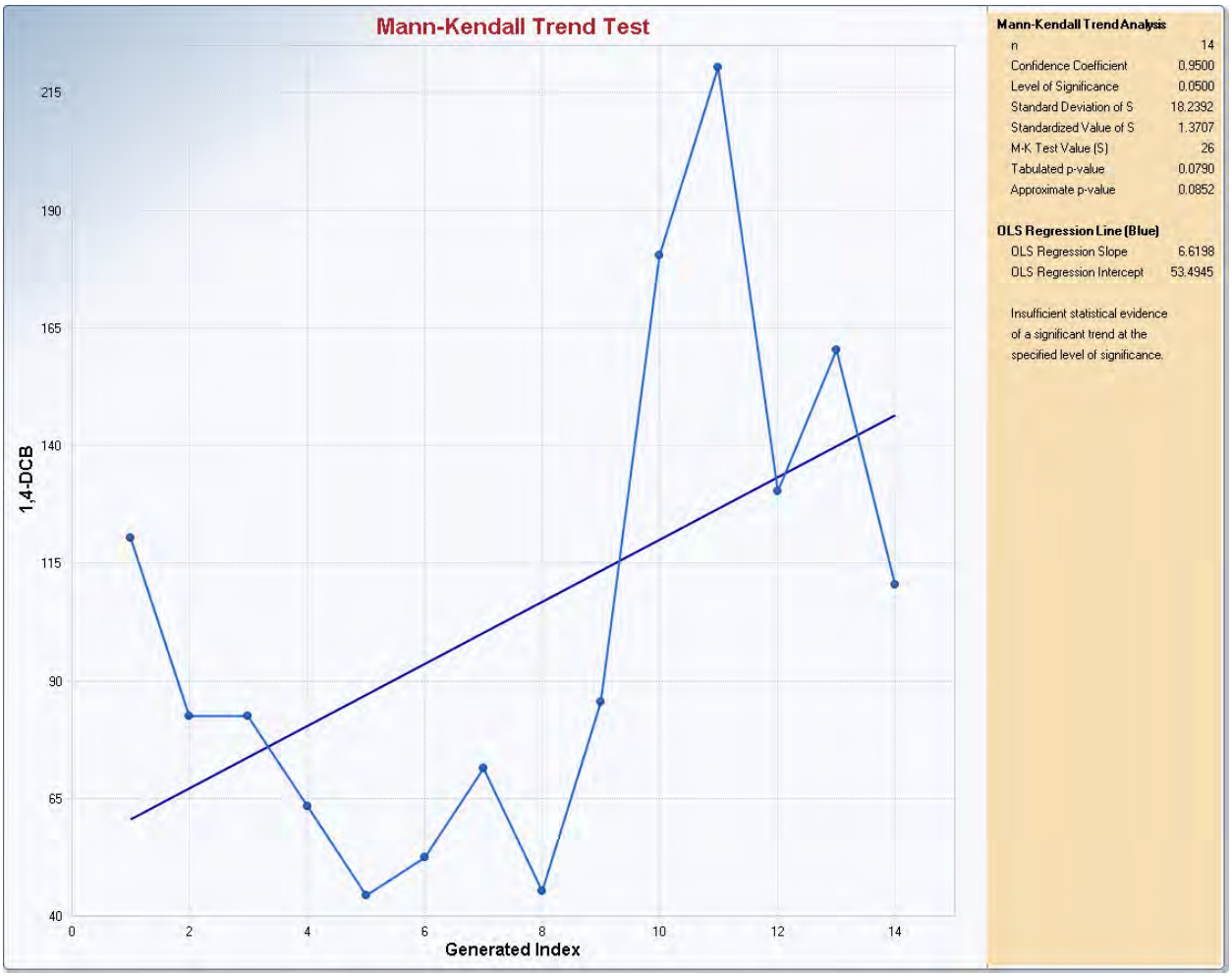
UAW05-20

1,4-DCB

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	15
Number Values Missing	1
Number Values Used	14
Minimum	44
Maximum	220
Mean	103.1
Geometric Mean	91.45
Median	83.5
Standard Deviation	53.5
Coefficient of Variation	0.519

Mann-Kendall Test	
M-K Test Value (S)	26
Tabulated p-value	0.079
Standard Deviation of S	18.24
Standardized Value of S	1.371
Approximate p-value	0.0852

Insufficient evidence to identify a significant trend at the specified level of significance.



UAW05-20

1,4-Dichlorobenzene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 9:48:30 AM	
From File	ProUCL-Trends-2016 Data_a.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

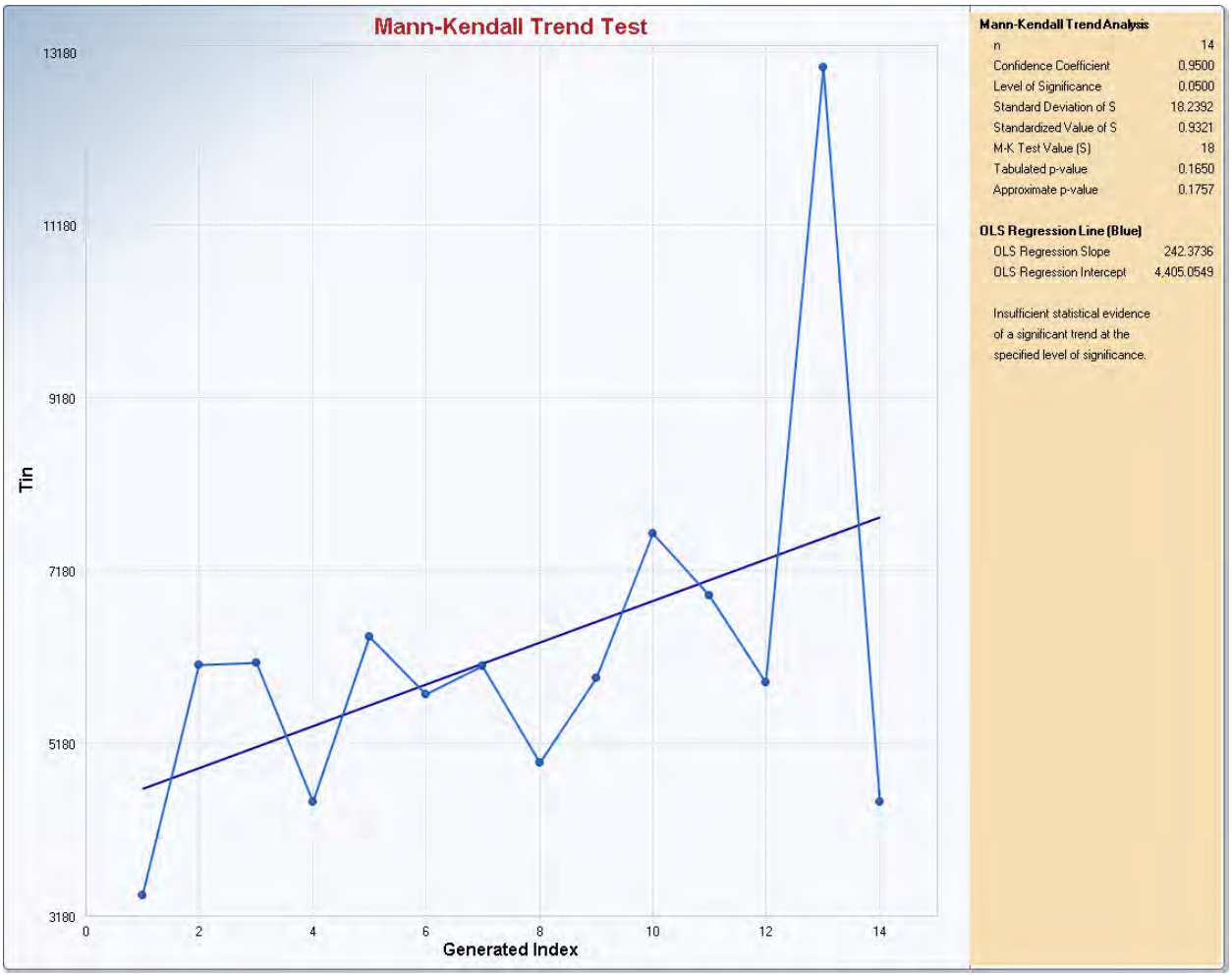
UAW08-20

Tin

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	3420
Maximum	13000
Mean	6223
Geometric Mean	5939
Median	6005
Standard Deviation	2223
Coefficient of Variation	0.357

Mann-Kendall Test	
M-K Test Value (S)	18
Tabulated p-value	0.165
Standard Deviation of S	18.24
Standardized Value of S	0.932
Approximate p-value	0.176

Insufficient evidence to identify a significant trend at the specified level of significance.


Mann-Kendall Trend Test
13180
11180
9180
7180
5180
3180
Tin
0
2
4
6
8
10
12
14
Generated Index
Mann-Kendall Trend Analysis
n 14
Confidence Coefficient 0.9500
Level of Significance 0.0500
Standard Deviation of S 18.2392
Standardized Value of S 0.9321
M-K Test Value (S) 18
Tabulated p-value 0.1650
Approximate p-value 0.1757
OLS Regression Line (Blue)
OLS Regression Slope 242.3736
OLS Regression Intercept 4,405.0549
Insufficient statistical evidence of a significant trend at the specified level of significance.

UAW08-20

Tin

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 9:52:52 AM	
From File	ProUCL-Trends-2016 Data_a.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

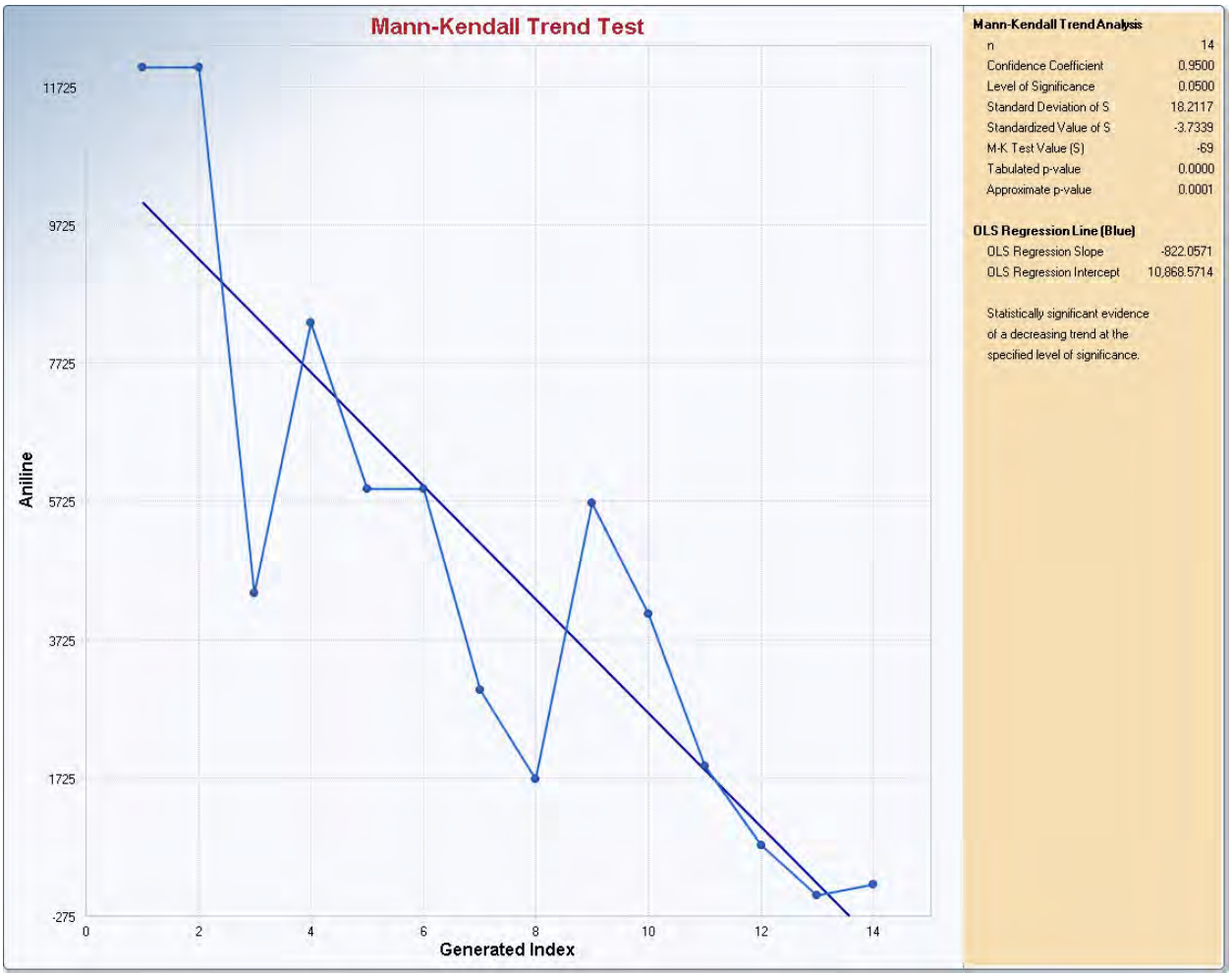
UAW08-20

Aniline

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	24
Maximum	12000
Mean	4703
Geometric Mean	2322
Median	4250
Standard Deviation	3938
Coefficient of Variation	0.837

Mann-Kendall Test	
M-K Test Value (S)	-69
Tabulated p-value	0
Standard Deviation of S	18.21
Standardized Value of S	-3.734
Approximate p-value	9.4284E-5

Statistically significant evidence of a decreasing trend at the specified level of significance.



UAW08-20

Aniline

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 9:55:32 AM	
From File	ProUCL-Trends-2016 Data_a.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

UAW08-20

Chlorobenzene

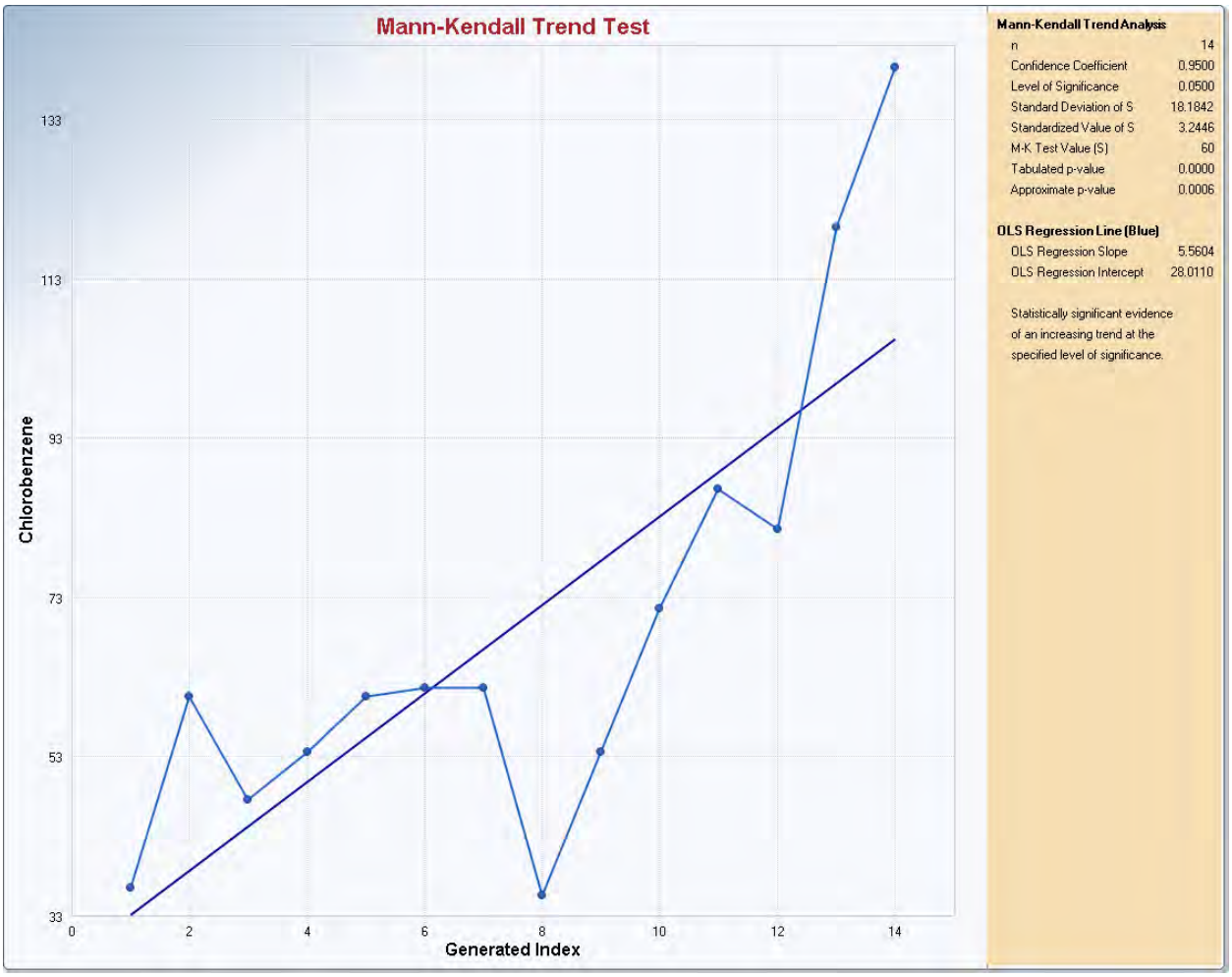
General Statistics

Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	36
Maximum	140
Mean	69.71
Geometric Mean	64.8
Median	61.5
Standard Deviation	29.57
Coefficient of Variation	0.424

Mann-Kendall Test

M-K Test Value (S)	60
Tabulated p-value	0
Standard Deviation of S	18.18
Standardized Value of S	3.245
Approximate p-value	5.8815E-4

Statistically significant evidence of an increasing trend at the specified level of significance.



UAW08-20

Chlorobenzene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 9:58:51 AM	
From File	ProUCL-Trends-2016 Data_a.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

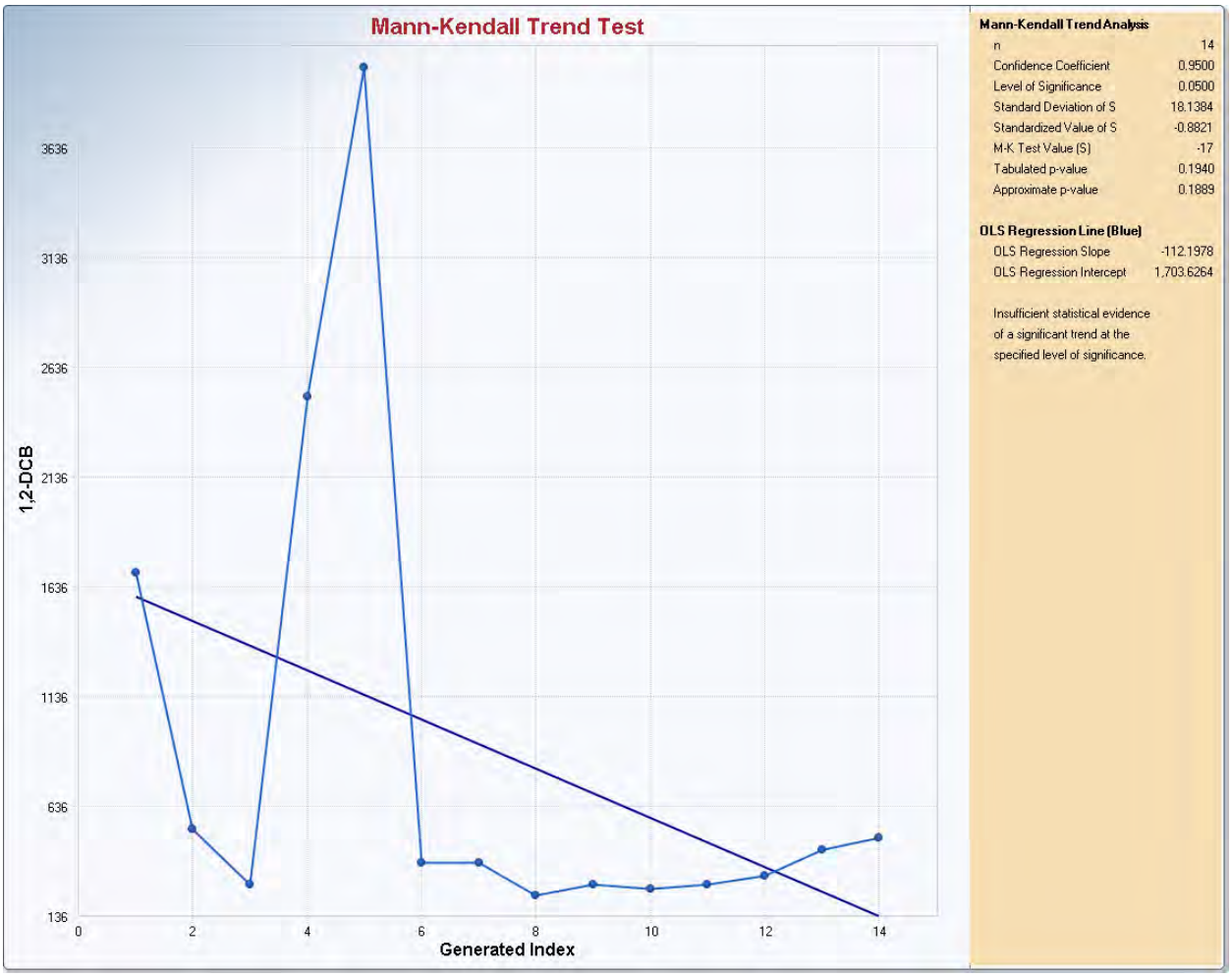
UAW08-20

1,2-DCB

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	230
Maximum	4000
Mean	862.1
Geometric Mean	524.1
Median	380
Standard Deviation	1116
Coefficient of Variation	1.295

Mann-Kendall Test	
M-K Test Value (S)	-17
Tabulated p-value	0.194
Standard Deviation of S	18.14
Standardized Value of S	-0.882
Approximate p-value	0.189

Insufficient evidence to identify a significant trend at the specified level of significance.



UAW08-20

1,2-Dichlorobenzene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:02:44 AM	
From File	ProUCL-Trends-2016 Data_a.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

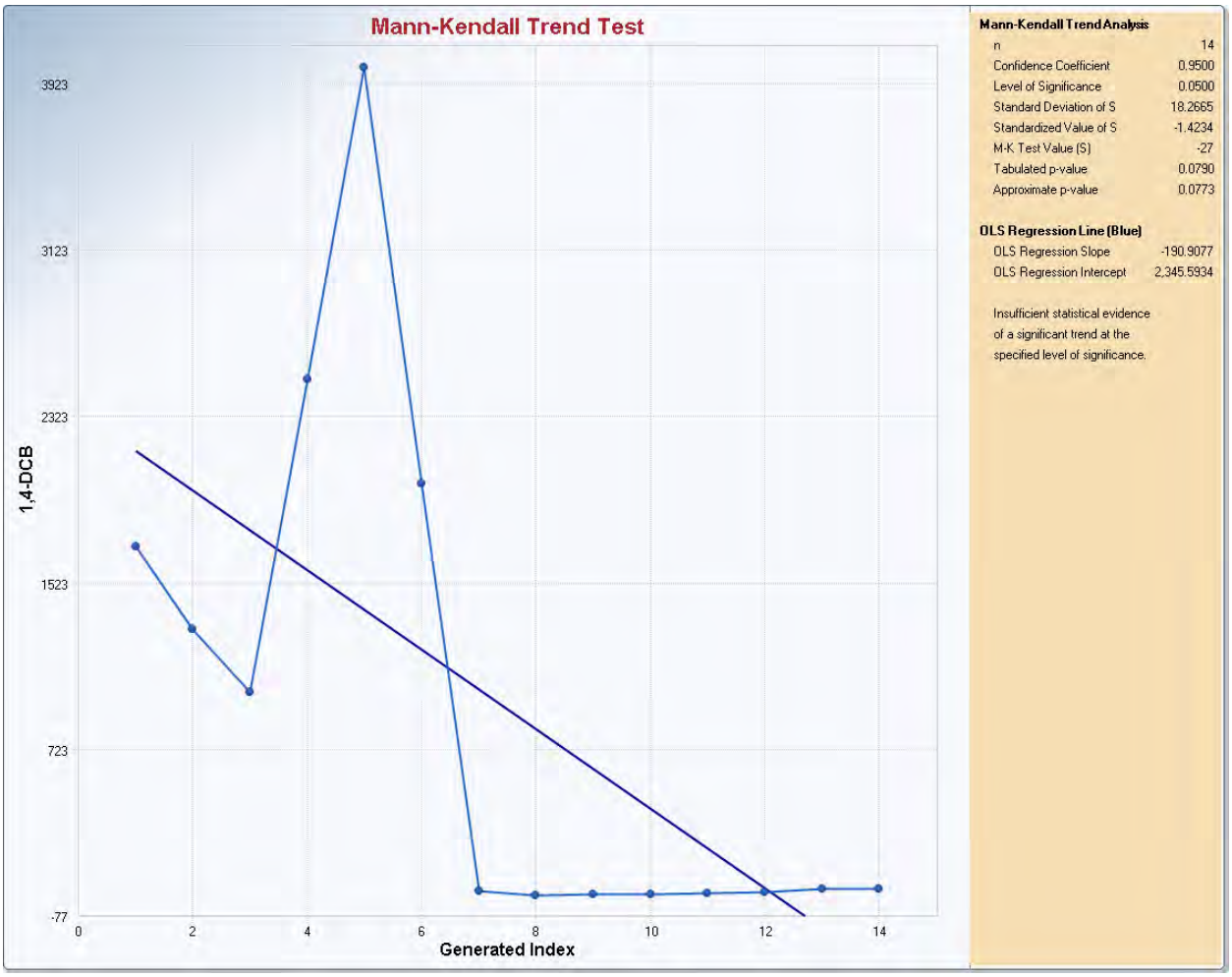
UAW08-20

1,4-DCB

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	22
Maximum	4000
Mean	913.8
Geometric Mean	192.9
Median	53.5
Standard Deviation	1245
Coefficient of Variation	1.363

Mann-Kendall Test	
M-K Test Value (S)	-27
Tabulated p-value	0.079
Standard Deviation of S	18.27
Standardized Value of S	-1.423
Approximate p-value	0.0773

Insufficient evidence to identify a significant trend at the specified level of significance.



UAW08-20

1,4-Dichlorobenzene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:16:03 AM	
From File	ProUCL-Trends-2016 Data_d.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

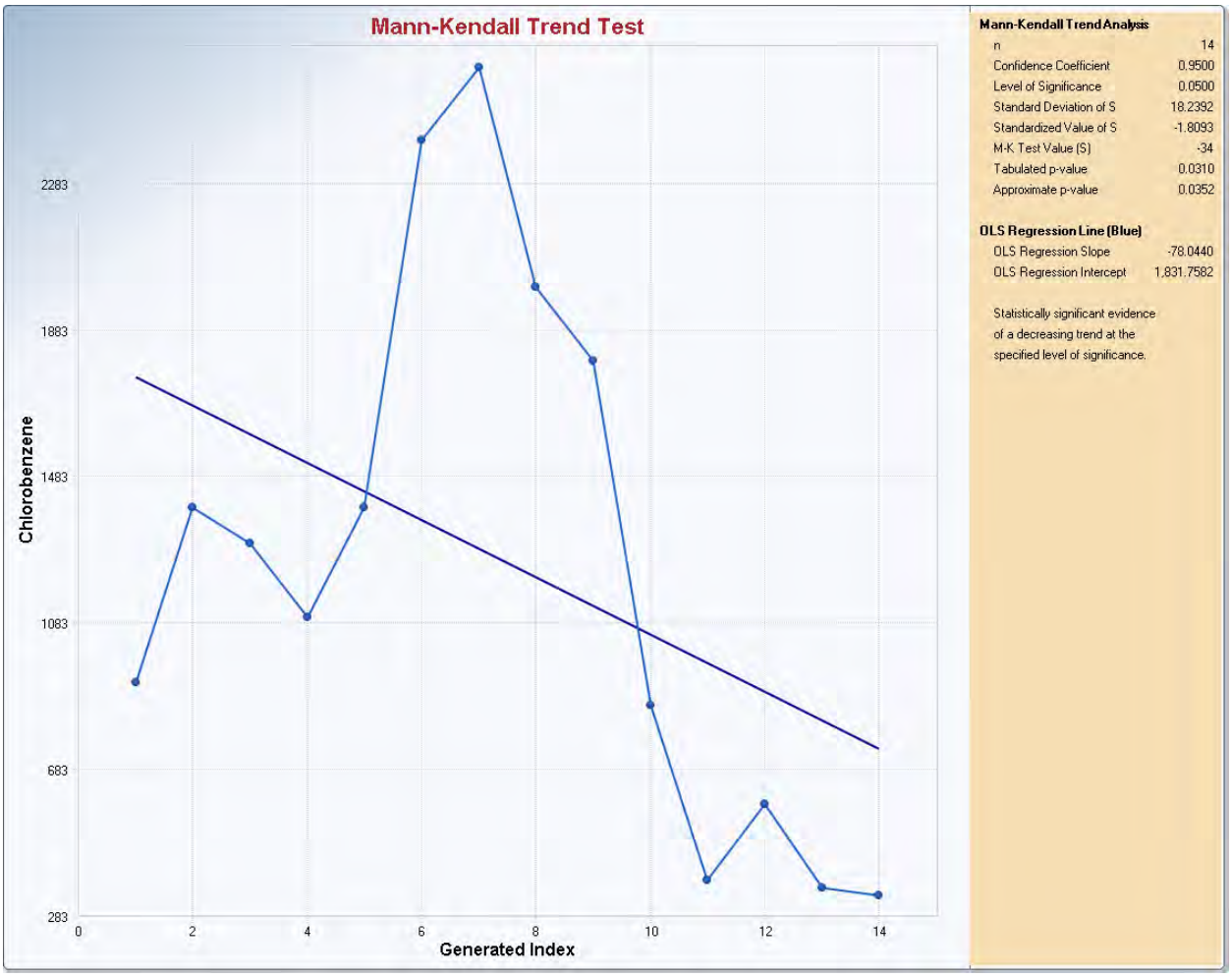
UAW12-20

Chlorobenzene

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	340
Maximum	2600
Mean	1246
Geometric Mean	1023
Median	1200
Standard Deviation	741.8
Coefficient of Variation	0.595

Mann-Kendall Test	
M-K Test Value (S)	-34
Tabulated p-value	0.031
Standard Deviation of S	18.24
Standardized Value of S	-1.809
Approximate p-value	0.0352

Statistically significant evidence of a decreasing trend at the specified level of significance.



UAW12-20

Chlorobenzene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:18:15 AM	
From File	ProUCL-Trends-2016 Data_d.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

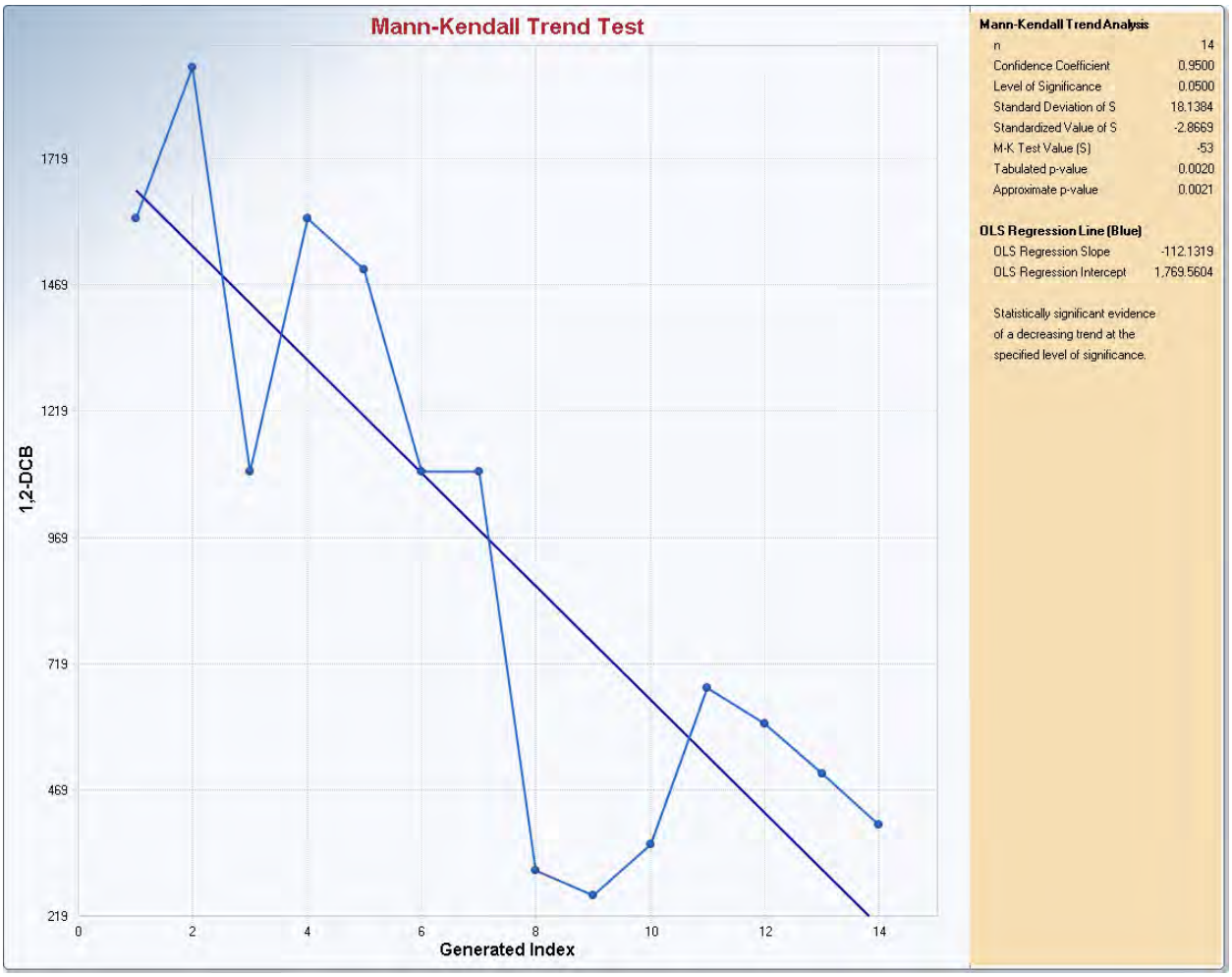
UAW12-20

1,2-DCB

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	260
Maximum	1900
Mean	928.6
Geometric Mean	763
Median	885
Standard Deviation	558.2
Coefficient of Variation	0.601

Mann-Kendall Test	
M-K Test Value (S)	-53
Tabulated p-value	0.002
Standard Deviation of S	18.14
Standardized Value of S	-2.867
Approximate p-value	0.00207

Statistically significant evidence of a decreasing trend at the specified level of significance.



UAW12-20

1,2-Dichlorobenzene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:19:35 AM	
From File	ProUCL-Trends-2016 Data_d.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

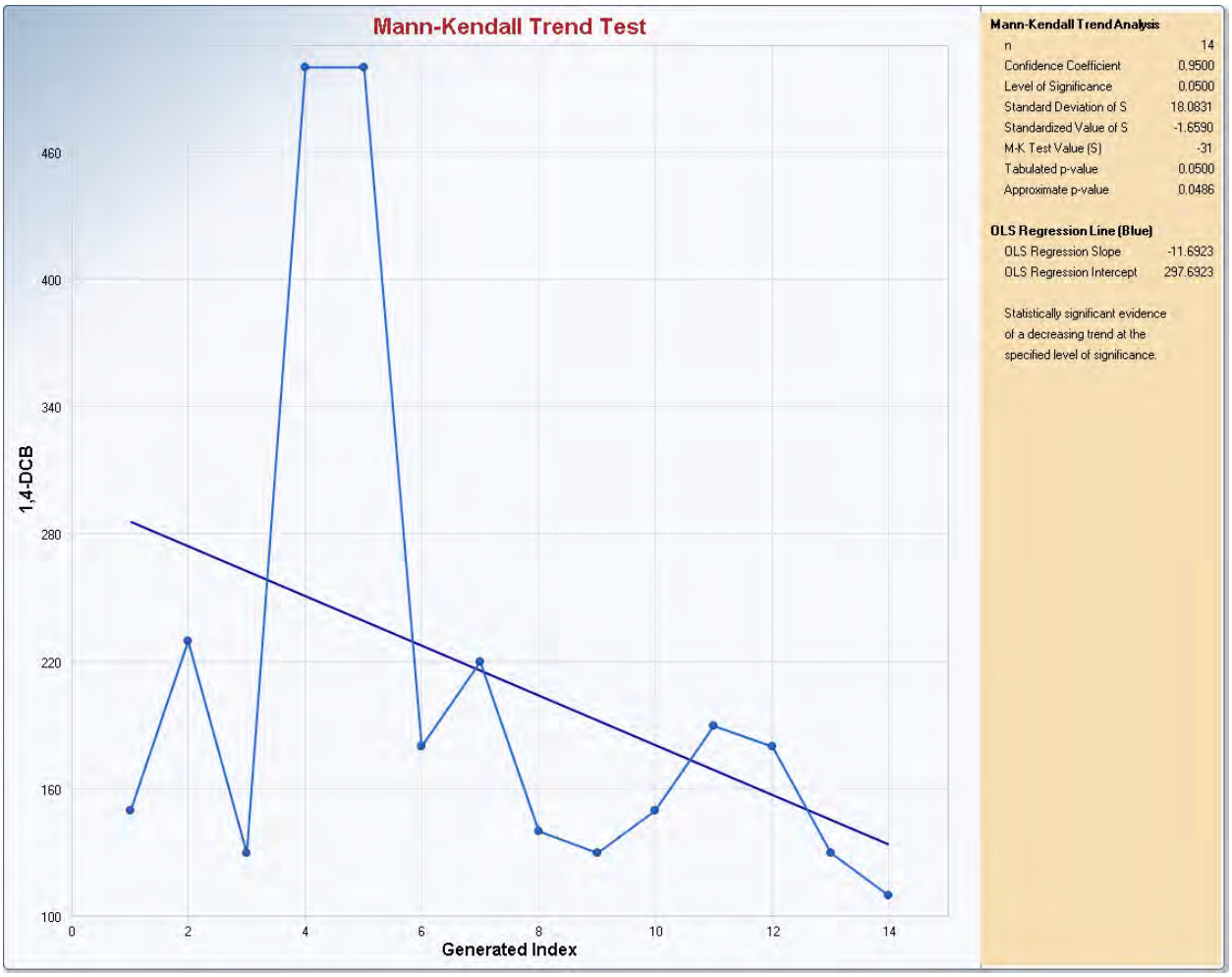
UAW12-20

1,4-DCB

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	110
Maximum	500
Mean	210
Geometric Mean	186
Median	165
Standard Deviation	127.8
Coefficient of Variation	0.608

Mann-Kendall Test	
M-K Test Value (S)	-31
Tabulated p-value	0.05
Standard Deviation of S	18.08
Standardized Value of S	-1.659
Approximate p-value	0.0486

Statistically significant evidence of a decreasing trend at the specified level of significance.



UAW12-20

1,4-Dichlorobenzene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:32:00 AM	
From File	ProUCL-Trends-2016 Data_j.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

UAW20-60

1-1-DCA

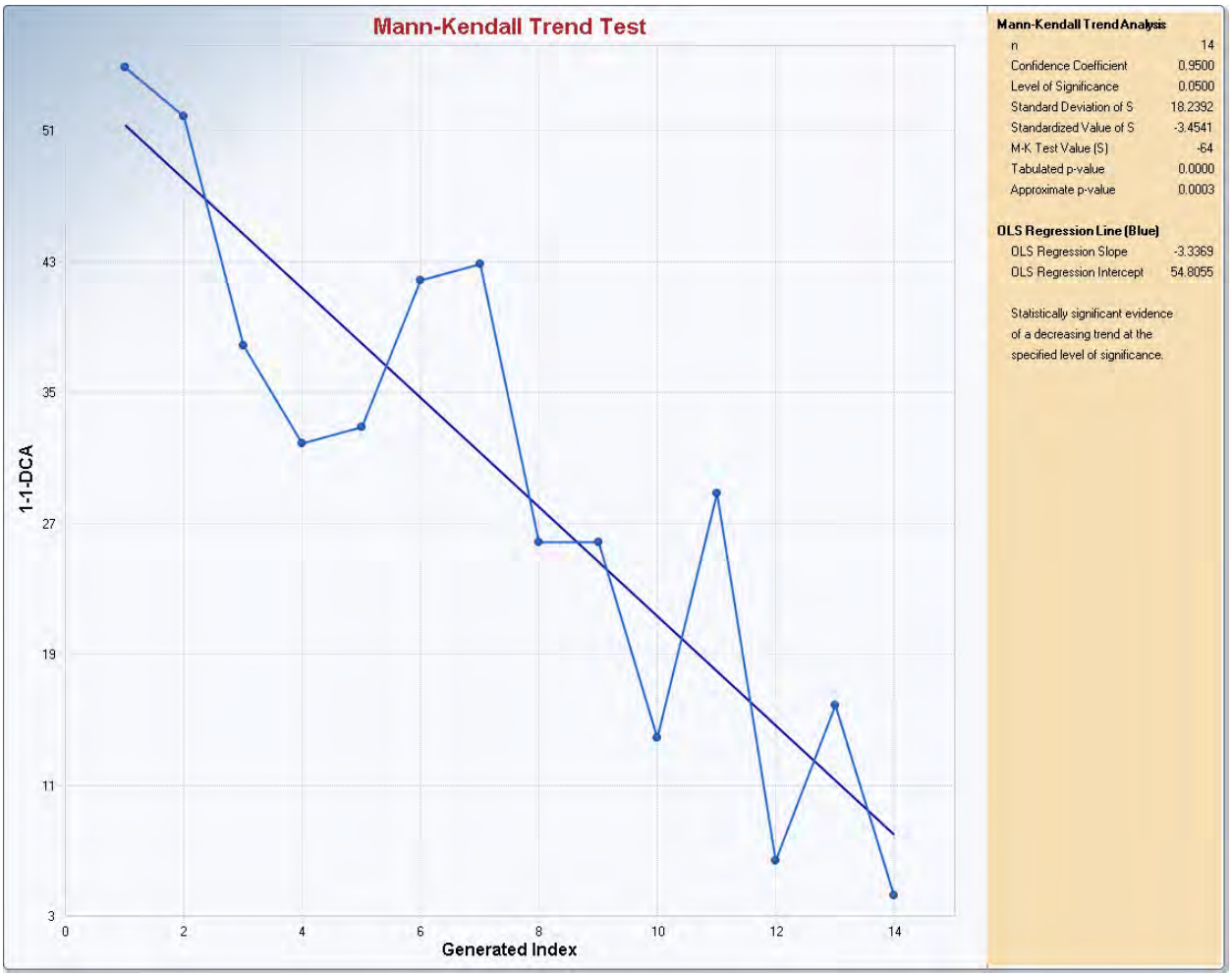
General Statistics

Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	4.4
Maximum	55
Mean	29.78
Geometric Mean	24.37
Median	30.5
Standard Deviation	15.67
Coefficient of Variation	0.526

Mann-Kendall Test

M-K Test Value (S)	-64
Tabulated p-value	0
Standard Deviation of S	18.24
Standardized Value of S	-3.454
Approximate p-value	2.7606E-4

Statistically significant evidence of a decreasing trend at the specified level of significance.



UAW20-60

1,1-Dichloroethane

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:35:18 AM	
From File	ProUCL-Trends-2016 Data_j.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

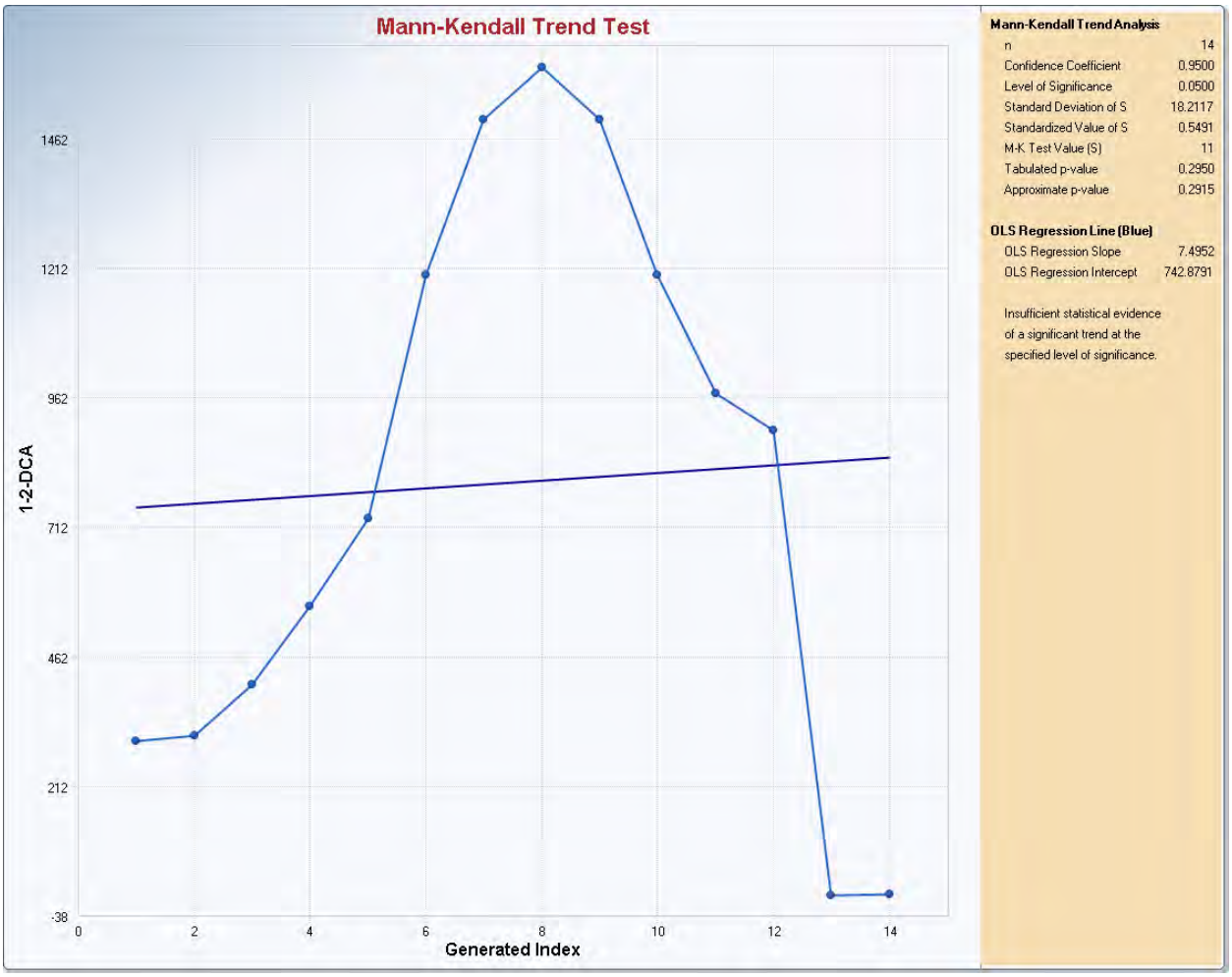
UAW20-60

1-2-DCA

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	14
Number Values Reported (n)	14
Minimum	2.3
Maximum	1600
Mean	799.1
Geometric Mean	367.2
Median	815
Standard Deviation	551.4
Coefficient of Variation	0.69

Mann-Kendall Test	
M-K Test Value (S)	11
Tabulated p-value	0.295
Standard Deviation of S	18.21
Standardized Value of S	0.549
Approximate p-value	0.291

Insufficient evidence to identify a significant trend at the specified level of significance.



UAW20-60

1,2-Dichloroethane

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:37:58 AM	
From File	ProUCL-Trends-2016 Data_j.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

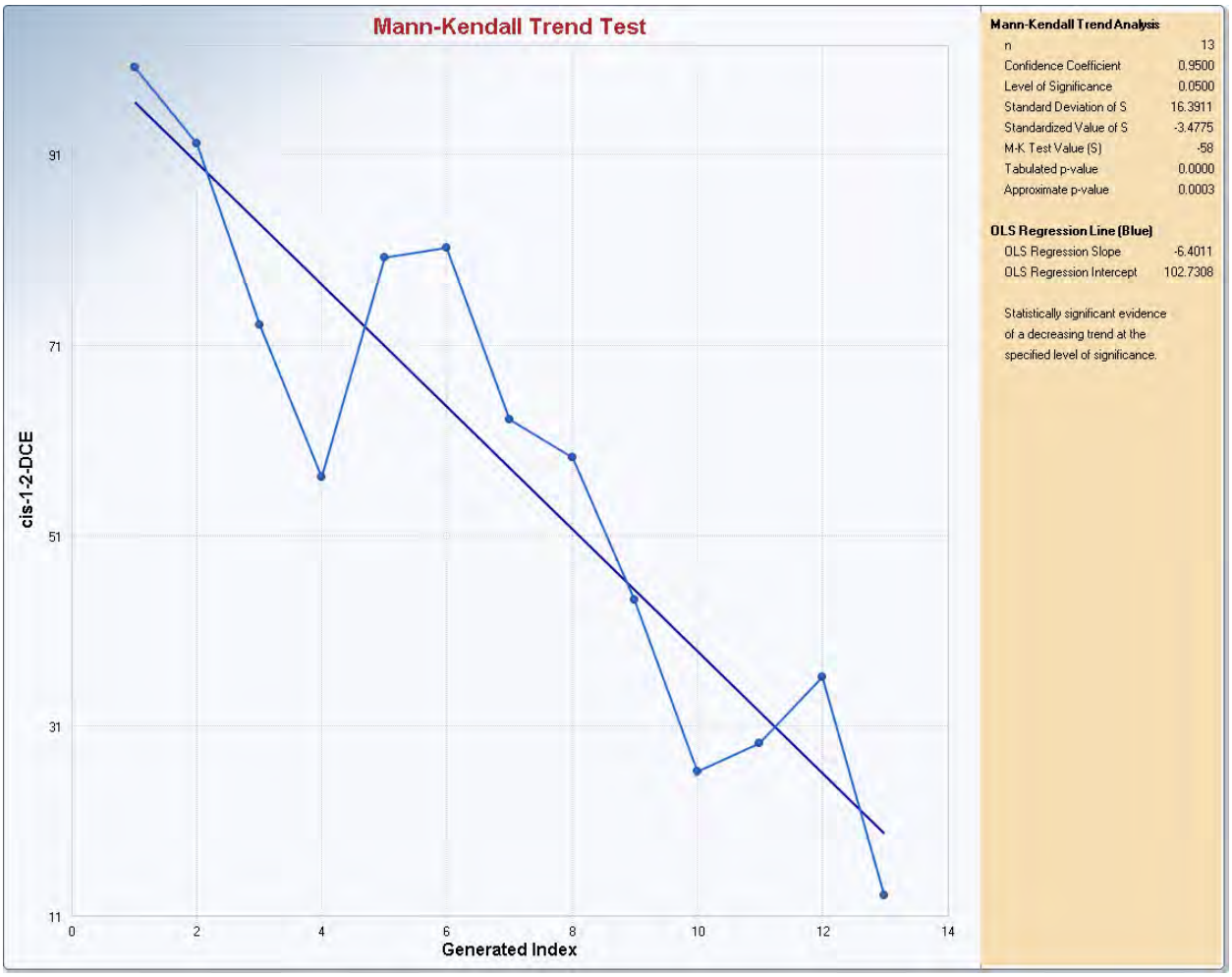
UAW20-60

cis-1-2-DCE

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	13
Number Values Reported (n)	14
Number Values Missing	1
Number Values Used	13
Minimum	13
Maximum	100
Mean	57.92
Geometric Mean	50.62
Median	59
Standard Deviation	27.01
Coefficient of Variation	0.466

Mann-Kendall Test	
M-K Test Value (S)	-58
Tabulated p-value	0
Standard Deviation of S	16.39
Standardized Value of S	-3.478
Approximate p-value	2.5305E-4

Statistically significant evidence of a decreasing trend at the specified level of significance.



UAW20-60

cis-1,2-Dichloroethene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:39:54 AM	
From File	ProUCL-Trends-2016 Data_j.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

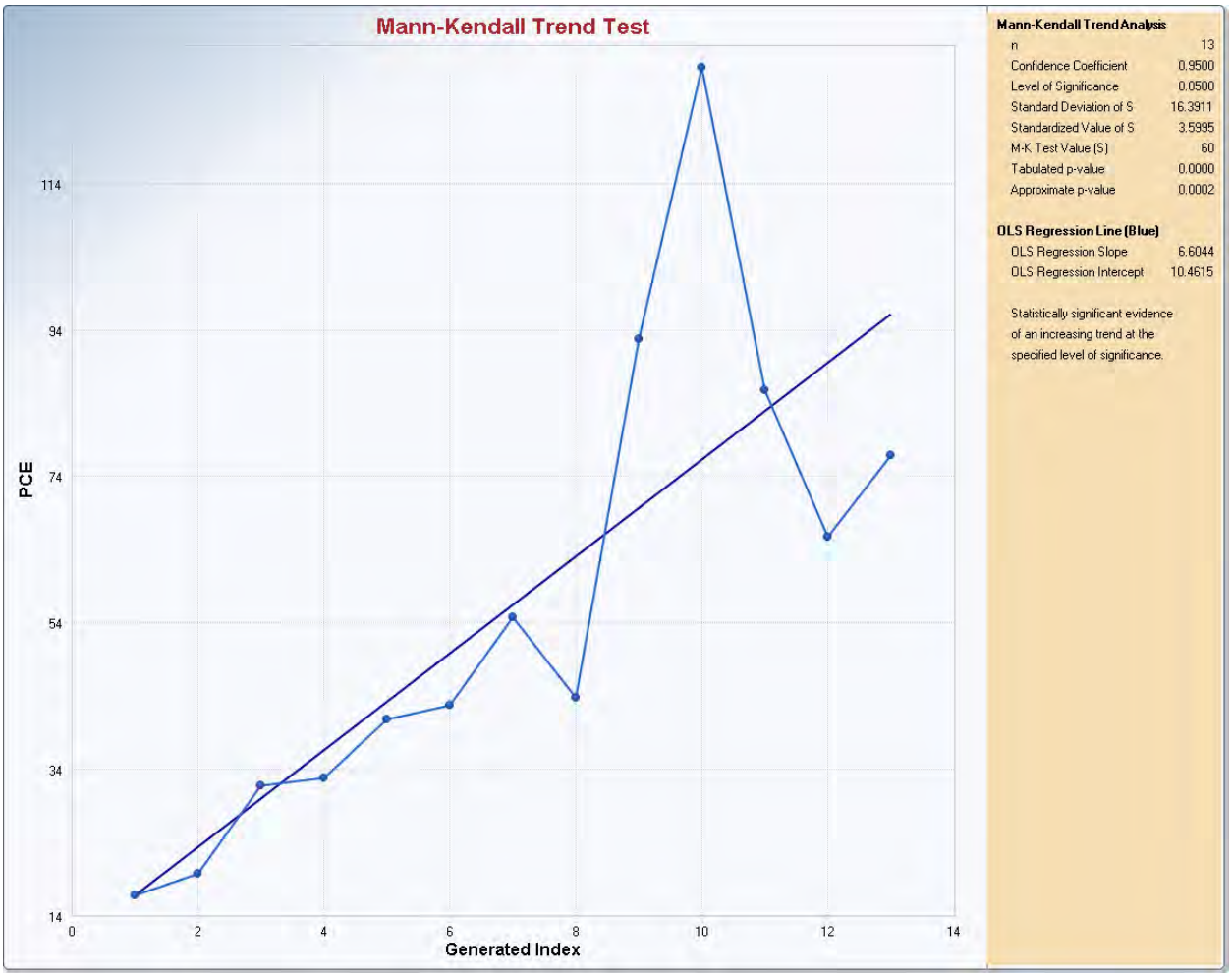
UAW20-60

PCE

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	13
Number Values Reported (n)	14
Number Values Missing	1
Number Values Used	13
Minimum	17
Maximum	130
Mean	56.69
Geometric Mean	48.44
Median	44
Standard Deviation	32.58
Coefficient of Variation	0.575

Mann-Kendall Test	
M-K Test Value (S)	60
Tabulated p-value	0
Standard Deviation of S	16.39
Standardized Value of S	3.6
Approximate p-value	1.5940E-4

Statistically significant evidence of an increasing trend at the specified level of significance.



UAW20-60

Tetrachloroethene

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:42:13 AM	
From File	ProUCL-Trends-2016 Data_j.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

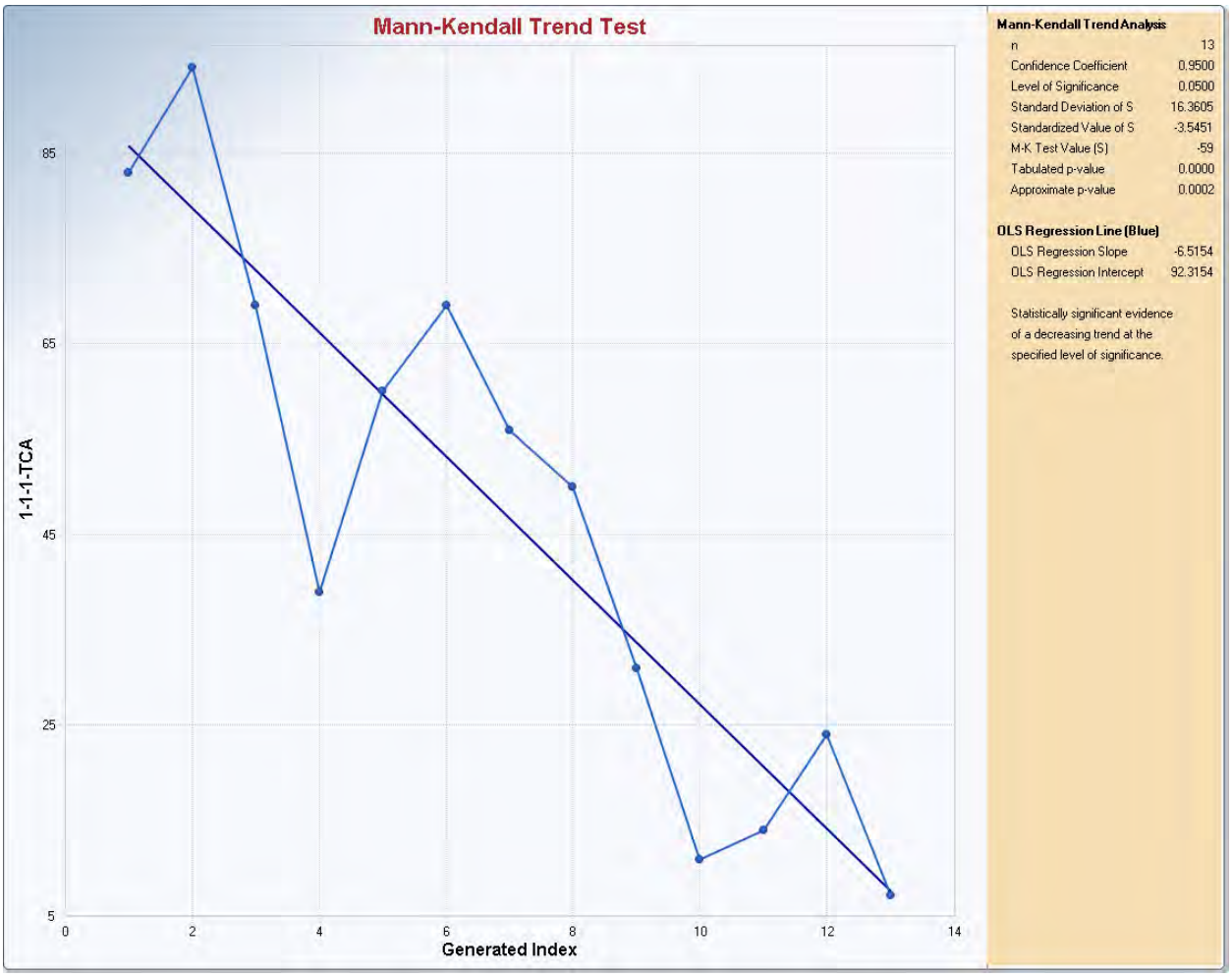
UAW20-60

1-1-1-TCA

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	13
Number Values Reported (n)	14
Number Values Missing	1
Number Values Used	13
Minimum	7.2
Maximum	94
Mean	46.71
Geometric Mean	36.45
Median	50
Standard Deviation	28.21
Coefficient of Variation	0.604

Mann-Kendall Test	
M-K Test Value (S)	-59
Tabulated p-value	0
Standard Deviation of S	16.36
Standardized Value of S	-3.545
Approximate p-value	1.9622E-4

Statistically significant evidence of a decreasing trend at the specified level of significance.



UAW20-60

1,1,1-Trichloroethane

	Mann-Kendall Trend Test Analysis	
User Selected Options		
Date/Time of Computation	ProUCL 5.12/9/2017 10:43:54 AM	
From File	ProUCL-Trends-2016 Data_j.xls	
Full Precision	OFF	
Confidence Coefficient	0.95	
Level of Significance	0.05	

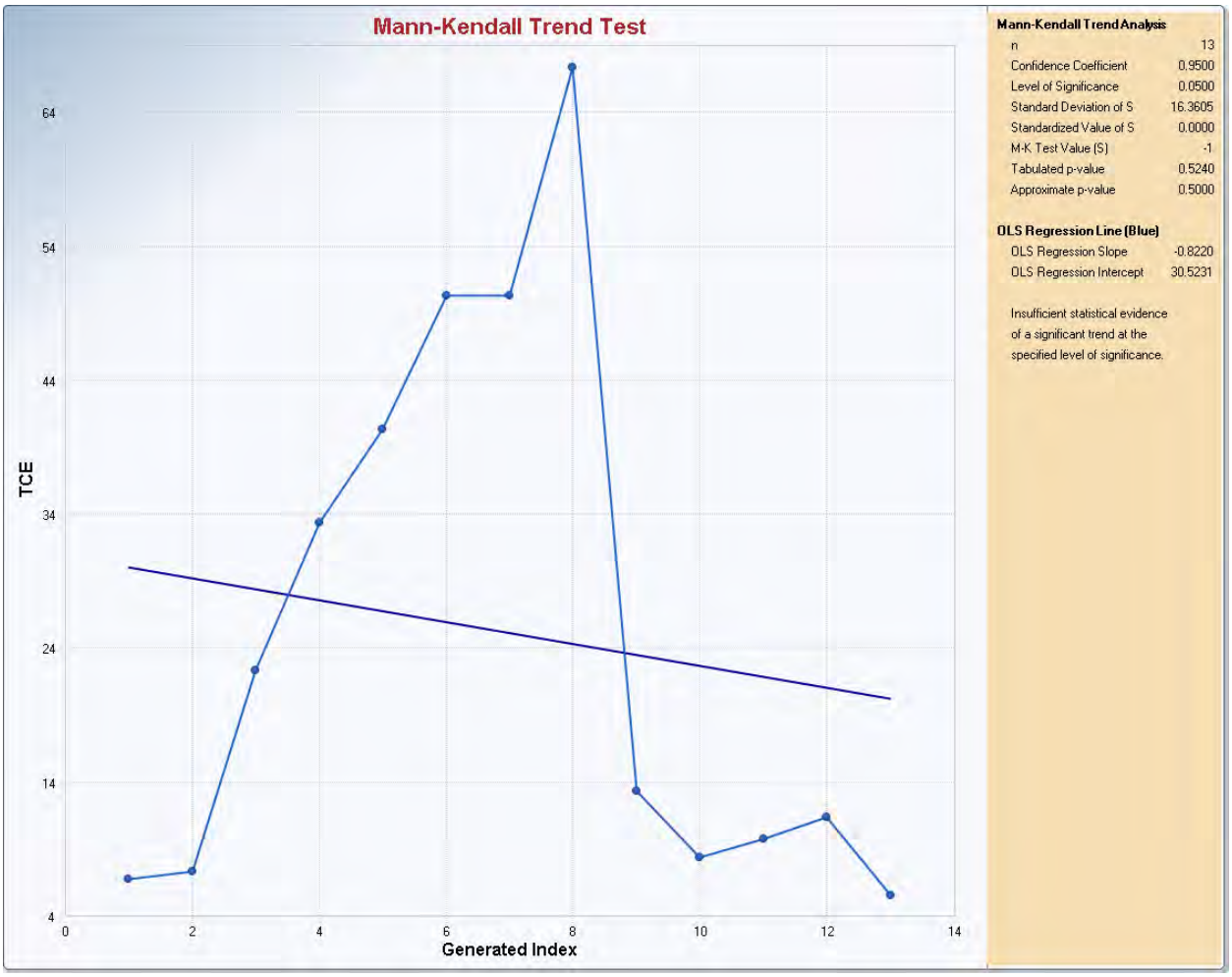
UAW20-60

TCE

General Statistics	
Number or Reported Events Not Used	0
Number of Generated Events	13
Number Values Reported (n)	14
Number Values Missing	1
Number Values Used	13
Minimum	5.2
Maximum	67
Mean	24.77
Geometric Mean	17.27
Median	13
Standard Deviation	20.91
Coefficient of Variation	0.844

Mann-Kendall Test	
M-K Test Value (S)	-1
Tabulated p-value	0.524
Standard Deviation of S	16.36
Standardized Value of S	0
Approximate p-value	0.5

Insufficient evidence to identify a significant trend at the specified level of significance.



UAW20-60

Trichloroethene

2016 Site-Wide Groundwater Sampling Report

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